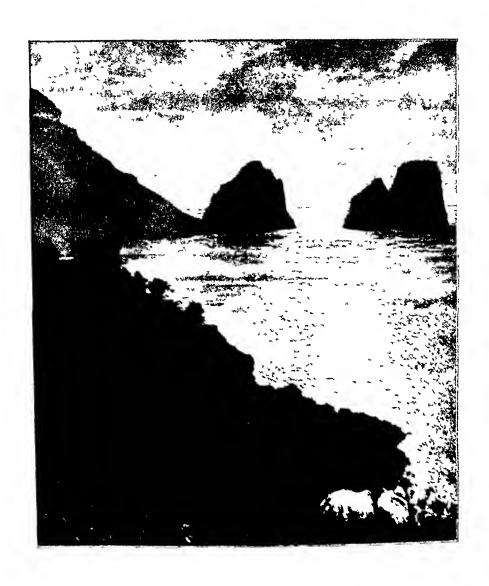
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INDIA

Landscape of Asia's Central Peninsula

by Sir Thomas Holdich

Author of "The Gates of India"

TNDIA, even now, hardly assumes her true geographical character in Western unagination as a continent half as big as Europe, divided into many regional units answering to the "countries" of Europe and differing from each other in physical conformation and geographical detail as do those Ligorean countries: and the recorle in their differing as much as their coun-The rough and harry highlander of the frontier fulls is as far apart from the sleek and obstructive Bengali balm as is the ree-bred Eskimo from the sun-nurtured Neapolitan Each is now the final product of his ancestral chy fronment, the contrast between them in mentality and physique indicating fairly well the geographical contrasts involved in their natural surroundings.

It will be found that on the whole the limits of race distribution in India are defined by those natural features which form their geographical boundaries, the lines of separation being usually well marked, and there being little or no admixture of peoples on the border such as give rise to so many political complications in Europe. This may be partly due to the different standards of civilization which govern their existence, but chiefly, no doubt, to the fact that there is no cosmopolitanism where Indian creeds and castes are concerned.

Divisions of Caste and Creed

The amatgamation of nationalities such as is common to the republics of the West is absolutely unknown in the East, A man may be Hindu or Moslem by creed. or he may be Rajput (Aryan) or Tamil (Dravidian) by race, but there is no social admixture whatsoever between Copyrighted in U.S A , 1923, by The Amalgamated Press (1922) Limited.

them and no recognition of race superiority. Democracy and easte can never exist side by side in modern India.

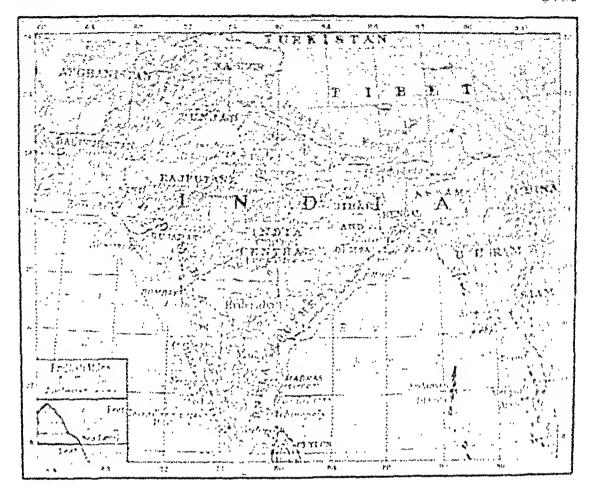
It is this which presents the chief difficulty to the establishment of any comprehensive system al self-rule in There is, inherent in India itself, no possibility of coverning its three lundred and fifteen million inhabitants of divergent origin and autagonistic principles as a whole nation, nor does Instory indicate that there ever will be

Infinite Variety of Compartments

Self-rule, if it strikes root at all, will be in compartments, that is, in a number ol separate and well defined geographical units as it is in Europe. It is the infinite variety of these conmartments, both natural and political, which renders it difficult to describe India in detail as a geographical whole, and for this reason the subject is here considered in parts corresponding to those areas or regions which fall under similar influences of chmate and exhibit similar physical conditions of existence

The generic term " India," as a whole, nnt only includes the great peninsular area which reaches from the Himalayas to Cape Comoria, but a wide extension of clevated plateau and mountainous country separating the peninsula from the rest of Asia, wherein he the narrow and difficult land approaches to the vast and teeming plains.

If we would obtain a comprehensive view of India which might serve to coordinate all these separate regions and explain something of the primeval methods by which they came to exist in such strange variety, we must turn back a page or two ol her geological past and note the basis on which the completed



north-west barriers and it is these which have afforded much of the romance of modern Indian history and which still awake the echoes of an heroic past.

On the extreme west the Baluch mountain frontur, facing the Indus, consists of a more or less regular system of uplifted limestone strata in stiff and broken ranks ever rising in altitude from the Indus plum to the central upland. It is as if they formed a gigantic staircase of which the top landing leads on to the wide B duch and Afghan plateau, from which the gathered sources of antecedent drainage break down transversely through the most amazing rock-bound gorges to the later and sandy plains of the Indus.

Farther north the frontier barrier of lulls facing Afghanistan is far more irregular. The mountain masses of Waziristan pile themselves into more irregular conformation, while farther north again, beyond the Kabul river, they touch the footbills of the far extended Hindu Kiish spurs. North of Peshawar and east of the Indus, we reach the nighty Hinalayan barrier which for 1,600 miles trends south-east to the great bend of the Brahimpustra, being nowhere less than 100 miles wide.

Ploor of a Vanished Sea

This, then, represents the marvellous disposition of nature for shutting off the Indian pennisula from High Asia and it represents a barrier such as no other country in the world possesses. Great rivers cradle their sources beyond the Ilimalayas, such as the Indias, the Sutlej and the Brahmaputra; lesser streams rise in the hill-shadowed depths of the Ilimalayan folds.

Flanking this mightly extent of mountain barrier, towards India, is a hardly less amazing depression, the Indo-Gangetic basin, which encircles northern India from the Arabian sea to the Bay of Bengal. This is the floor of a very ancient sea. Over the whole of the extra-peninsular area—over Baluchistan, Afghanistan, the Indus valley, Rajputana and even the north-western

Himalayas-the tides of a shallow sea once ebbed and flowed. This lasted till tertiary times when the rock area of the peninsula gradually closed up with the Eastern Himalayas. While ocean currents once swept from the Persian Gulf to the foot of the Aravalli mountains in Ramutana there still stood south of them that age old peninsula which was then an extension from Africa, Had man existed in those days, had he stood where the old Jam temples of Abu now stand and looked northward he would have seen a vast silent ocean with an unbroken horizon. desolate as an Arctic sea

Punjab Created by the Indus

This, then, is the bed rock, the very basis of India's conform tion. First, an inconceivably old pennsula south of Rajpitana; next the floor of a departed sea which has left many traces behind it, forming an immense depression between the pennsula and the recent formations of the trans-lindus fulls and flanking the great Hundayan spirrs; and, finally, the great mountains themselves with a limitless background of uplifted plateau readining northward to I lith Asia.

The Indus, after accipting its tribute of five great rivers (with the assistance of which it has laid out the flat floor of the Punjih, filling up with alluvium large 'tracts of the original depression) becomes, south of Multan, a broad and navigable river, sometimes shaping a much divided course through open plains, occasionally confined within definite and permanent banks till it reaches its huge delta south of Karachh.

Indus Divorced from the Ganges

The Indus basin is practically unwatered by the monsoon rains which pass over and beyond it so that the fertulty of the Punjab depends largely on irrigation. It receives, however, certain contributions from the frontier hills In comparatively recent geologic times the basins of the Indus and the Ganges parted company, becoming a divided system with a definite water parting

While much of northern ludia con sists of either deept or wide treele's spaces nearly all of the southern continent south of the Vindhyas as eather forest-clad or numele-covered. The forests of the south which form the halatat of many tribes whose origin is chiefly Dravidian are not as the forests of the lower Humalayas. There are indeed extensive but isolated tracts of mal forest capable of producing valual le tumber but for the most part the jungle bush and small wood consists of combined with runl grass dwuf palms and cane brakes which are economically useless. Cultivation does not extend far from the coast line or the rivers in any but the most primitive form, the delias of the rivers yielding the chief agricultural wealth of the country

Last of In la and separated from it by a narrow margin of forest-clad mountain ranges at the licad of the valley of Assam is Burint. But that very humid waterlogged and with delightful country forms the theme of

a separate chapter

India which has from prehistoric times held the colden promise of men's desire and has therefore been subject to periodic array tions of creedy treasurehunting Asiatic hordes has derived therefrom a large legacy of crude but quite distinct peoples who have retained their own peculiar characteristics carving out for themselves a habitat in the confinent from which they have been periodically ousted by later and more powerful arrivals. Thus it happens that we find the old st of the crehistoric peoples in the willest jungles and most inaccessible hills and the more civilized communities in that part of India with which we are most familiar

Although it is impossible within the limits of this short chapter to enter into details of the eties manufactures and trade of India as a whole—they will be found more extensively treated else where—it is interesting to note that commercially. Justia as strong position. The rapper stands above its pre-War value, and the export trade-figures have similarly mercased.

INDIA GEOGRAPHICAL SUMMARY

Natural Distilont. The pennsula the Decan an nucent plateau a rele of the nneent continent of Gondwardual. (Cf. Africa.) The northern mountums (Cf. Africa.) The northern mountums (cf. Africa.) The properties of the firmulyam system the proof of the firmulyam system the proof of the worl.) the tight est an innot eastern section of the Old World upfol led mountums (Alps Caucasus Himmalryas). The plums between them the Indo Grugetic plum a complementry, trough once illoaded not filled with allusting.

Climate. The type area of the Monsoon.

Climate The type area of the Monsoon climate three seasons (1) No ember to March the cool season with little or no ran (2) April to June the hot we'tler ferce sunshine (3) June to October the runy season which begins when the monsoon breaks during these months from two-thirds to for in fiths of the annual rainfall. The climate is controlled by the height of the sun in the sky in these low latitudes and by the wands of the Indian Ocean which blow from the south west commonly and the property of the sun market months and temporarily displice to the sun the season when the work was temporarily displice to the season when the south west temporarily the specific three seasons are the seasons with the seasons when the seasons with th

wind which is normal in these latitudes
Legetation The hot Thar desert in
Rajputana and Sind (cf Sahara) jungles
and jungle forests in the ramy are is an i
on the lower slopes (Cf Guinea Lanls)

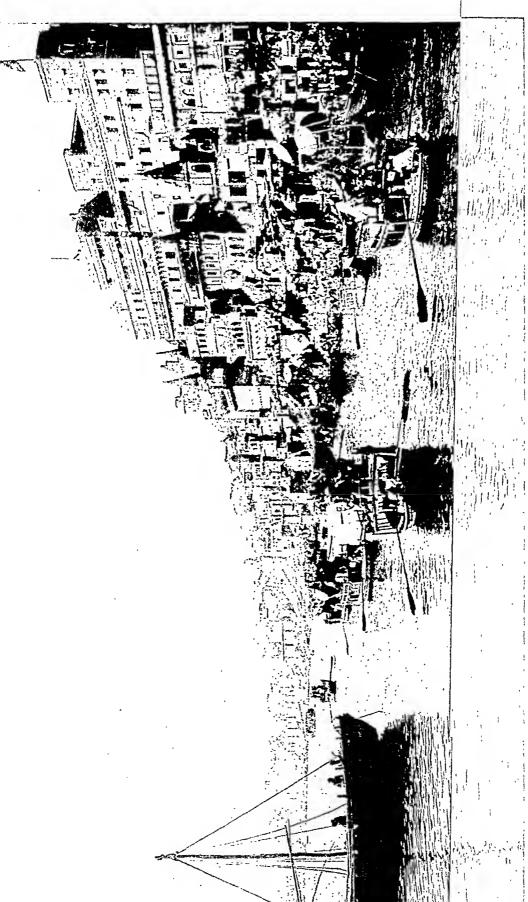
Deci fuous forests on the heights. Very little savanus In 1 such as occurs in the scantily peopled but In it for the population is so dense that this natural region is cultivated in 1 frequently yiel is two crops mmushly.

Froducts Rice jute in ligo wheat cotton to Vica manganese coal and more or Cotton silk and leather goods with ornamental metal ware of dis

tinetive character

Continuations In ancient days communications were by Inil through gaps in the encompassing mountains. As the seas cum gradually into use the coast became important and under British administration the bases of control and traffic as well as the great termin of the linin I route came to depend on the sea and occur going ships.

Ottook A conjeries of stales some native some British with two definite religions and a previlent caste system his a choice between order and settled government by authority bised on sea power or anarchy and choos due to the disruptive tendencies of the numerous distinct peoples set in different and contrasted environments in an irrae equal to half of Europe or the United States



At Benares the Ganges forms a magnificent sweep of about four miles, the city being situated on the outside curve on the northern bank, which is higher than Seen from the river there is a splendid panorama of the innumerable ornate temples, shrines and ghats that comprise the whole river frontage; ye ARCHITECTURE, LINING TEMPLES, IN VARYING FORMS SHRINES AND

despite its imposing appearance Benares does not possess many buildings of arre-ting grandent nor of any great antiquity, the most prominent buildings being the Aurungzebe Mosque with its two minarets, the Bisheshwar or Golden Temple, dedicated to Siva, and the Durga Temple, known as the Monkey Temple

From Himalayas to Kistna River

by Edward E. Long

Author of . British Rule in India," etc.

L have here under our consideration a country of broad, receive plain, with well-watered fertile lands directly populated, where the first Ary in extress in India established themselves after this great trans Himalayan trek and built fair cities and founded a great evaluation. It is a region of vast tabilitand, brob en up by noble mountain ranges, whose picture-que fulls and valleys, often clothed with their force, there discreted abrunnal tribes to the present day, and where warrior chiefs of proud Rajant ancestry, with their sturdy climpion, evert thur way.

A strict definition of Central India would be all that turntory in the centre of the Imban continent which, in the form of a large number of native states under British protection, is known as the Central India Agency There is, however, such similarity from a physical standpoint between this territory and that of the Central Prosinces, mostly British territory, which he due south of these Central Indian states, that they may be said to form a complete physical unit. When added to Hyderabad in the south and to the wide central stretch of territory to the north which stretches to the borders of Trbet and Nepal and is known as the United Provinces of Agra and Oudle, they constitute a geographical unit which can claim to be defined as Central India

Lands Wrested from the Marathas

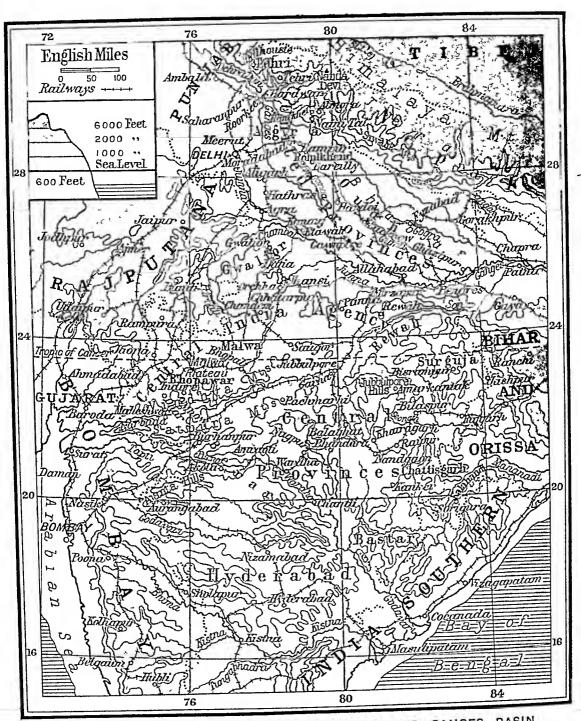
The Central Indian states have an area of 77,367 square miles and a population of 9,350,000, and are 153 in number. Principal are: Gwaltor, Indore, Blopal, Rewali, Dhar, Jaora, Datin and Orchha; all, except Bhopal and

Juora (Modem states), are Hindu; the run under are prouped together in agrences. The overthrow of the Marthas, in 1848, brought all under Brutch control. The Central Provinces, in area 131 000 square miles with a population of about 16000 000, came in part under direct Brutch rule at the conclusion of the Third Miratha War and the remainder when the Bhonda Raya Ragon died without issue in 1853.

Three Well Defined Zones

Included with the Central Provinces are the native states of Bastar Tishpur, Kanker, Khairagarh Nandgaon Rajgarli Surgum and the province of Berar, originally part of the dominions of the Nirum of Hyderaliad but banded over by him to the British Government in 1953, and in 1002 leased in perpetuity to the British Government. Hyderabail itself the chief native state of India. has an area of 82 (68 source miles and a population of over 13 000,000. and the United Provinces of Agra and Oudh, area 107,267 square miles and population 45 000 000, include the native states of Rampur and Telm and the independent state of Benares

In aspect the territory is very well-defined, and falls, naturally, into three rones. First comes the great level cultivated plan of the United Provinces bordered by high mountum Finils in the morth, a strip of forest land, the Bladbar, and then a wale belt of fever-strucken marsh, the Terai, and low hills in the south. The second division consists of the tablelands and mountain ranges of the Central Indian states and the Central Provinces, vast upland tracts, with a general elevation of from 1,600 to 2,000 feet, in parts fertile and

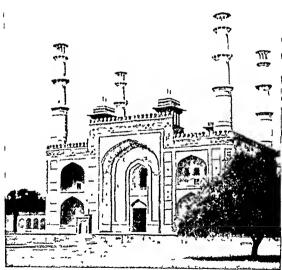


CENTRAL INDIA SPANNING DECCAN MASSIF AND GANGES BASIN

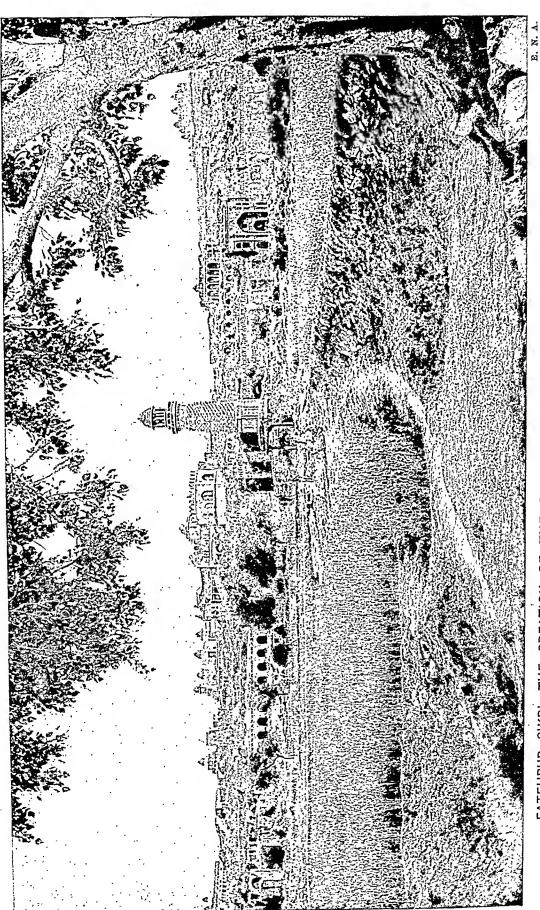
well-cultivated, at other points a stonestrewn plain, and the whole broken up into long, narrow, fertile valleys, with low, forest-clad hills interspersed here and there with bare stony ridges and a few imposing mountain peaks. Lastly there are the wide, well-watered and cultivated plains of Nagpur and Berar, the latter deep-flanked on the south by mountain ranges, the great and less fertile plain of Raipur and Bilaspur (Chattisgarh), and the vast jungle-clad states of Bastar and Kanker, with Chanda, the south-eastern end of Raipur, and Hyderabad in the extreme south. A wild country, 24,000 square miles of dense forest land, it is split up by precipitous mountains with little land fit for cultivation, and, until fairly recently, was the least known part of India.

Mountain ranges are minimum In the United Provinces the Himalians croper and their law lying runges form a muchty barrier in the north west the chief reak being Sanda Deve 25 615 feet. The older and low lynn Smahl s obtend into the trevince for some distance in the Dehra Dan detrict while in the south-east are the Last Supuras of very moderate altitude and in the south west three small ranges. I ranches of the main Vindlavin system, the dom mating mountain range in Central India proper. It traverses the entire country from north-east to south west and divided by the Natlada river throughout its extent into two parallel his is known is the Vindhyas north of this river and as the Superis could off the peaks attrium, as health of 3 000 to 4000fet. The importance of the rate of the Central India Apenes and the Central Provinces while it has a marked of the Central India Apenes and the Central India In southern Berar there is the Apinta Raige, and in Bustar small isolated rainesting and in Bustar small isolated rainesting especialists coorden.

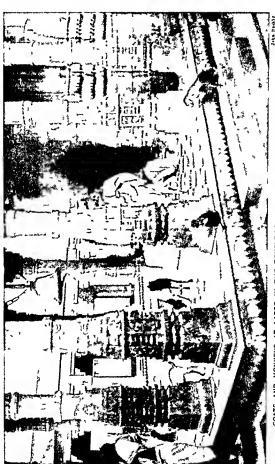
There are several small but extremely beautiful mountain lakes in the Himalayan di trict of the United Provinces and on the plains in the north-east



throsing gateway Leading to akbars tomb at sikandra all and Agrachys me frequiletion if the thought at the all and a six and of Agrachys me frequiletion if the thought at the analysis and the must be all and an atom for a fair thing agraes to the gardine and color gift it it is regarded of white marble instald with red and stone in fair thing a six and to gift and the analysis and the property of the analysis and the property and the property of the analysis and the property of the property of the analysis and the property of the proper



oeror, Akbar, who abandoned it for Agra. A wall nearly five miles long On account of its excellent state of prescrvation it forms an unexcelled In the centre of the photograph is the "Deer Minaret," a CITY LONG-DESERTED condition in which it was occupied by the Great Mogul and his court. In the centre of the photograph circular tower about 70 feet high, studded with elephants' tusks in stone, from which Akbar shot antelope Fatchpur Sikri lies 23 miles west of Agra city and was founded in 1569 by the Mogul emperor, Akbar, who abandoned it for Agra. runs round three sides of the town, the modern portion lying near the western end. On account of its excellent state of prese specimen of a city in the very condition in which it was occupied by the Great Mogul and his court. In the centre of the photogram BUT A ROYAL FATEHPUR SIKRI, THE CREATION OF



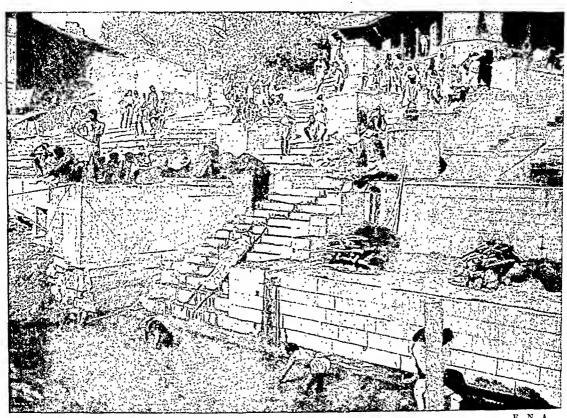
imes known as the Monkoy Temple because of the many morkeys which I steet the surry and natives, I esnear tie Mit hat at the southern extrem ty y of great antiquity and the religious capital of India from remote times is famo is for its a umero is st tines a thempie. TEMPLE PORCH OF THE GODDESS DURGA AT whom many sacrifices of goats are offered

large jhils, or swamps, which harbour myriads of wild fowl; but it is a land, chiefly, of rivers. Three of the largest rise in the Himalayas and flow through the entire length of the province, from north-west to south-east. The Gogra is the northernmost, the Ganges is in the centre and the Jumna in the south, each fed by a number of tributaries, the most important of these the Gumti, which joins the Ganges at Benares, and

in time of flood, and the Gogra, as great in volume, surpasses it in velocity.

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The Chambal is the chief river of the Central India Agency, which, joined by the Parbati, flows north-eastward along the borders of Gwalior, separating that state from Rajputana, to the Jumna at Etawah. The whole of the Central Provinces lies in the catchment basin of three great rivers, the Narbada, the Mahanadi and the Godavari. The latter

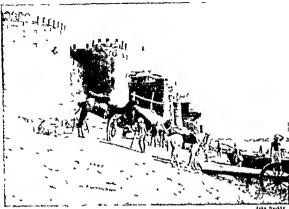


E. N. A.

GRUESOME PYRES ON THE BANK OF THE GANGES AT BENARES
At several of the ghats, which are used as cremation grounds, wooden pyres may be seen being built, while bodies wrapt up in white or red cloths lie ready to be burnt. It is the dream of pious Hindus to die upon the banks of the Ganges or have their ashes thrown into the water. At one time the actual bodies were cast into the river, but this is now illegal

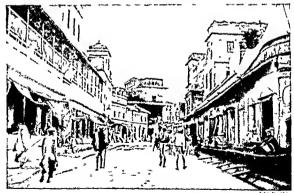
the Ramganga, which joins it nearly opposite Kanauj. All three rivers are majestic in flood-time, always of noble proportion, and between them they provide water for a vast plain-land and enable it to grow prolific crops of a variety of food-staples, and support one of the densest populations on the surface of the globe, and greater than that of any other part of India. The Jumna is usually confined within high, well-defined banks; the Ganges rolls from side to side of a bed often six miles in width

merely skirts the south-western border for a short distance, but the Mahanadi flows northward through the southern portion of the Raipur-Bilaspur plain, flanked by rice-lands; it is joined by the Sconath and eventually bends to the east after a progress of several hundred miles. The Narbada rises at Amarkantak in the east, traverses the province in a westerly direction, and for half its length divides the Central Provinces from the Central India Agency. Like other rivers of this region its source is at such an



ORIM WALLS AND MIGHTY BASTIONS OF THE PALACE AT RAMINAGAR.

Far mager assually modified as of produces linear the right short of Gangeran Laffer is a mag
intertience of the prior for the floration with spreads a fight opposite bank. The palace of
the Malarsia of Senarce with salone a fon ghat and seen to mitterience bas the appearance of a
strong 15 of or contact high celebration rather than of a palace.



STREET IN BENARES 'THE SPLENDIO," HOLY CITY OF THE HINDUS PROCESSES AND A STREET IS STREET ON THE GRAND OF THE HINDUS PROCESSES AND A STREET OF THE HINDUS PROCESSES AND A STREET, AND A STREET OF THE HINDUS PROCESSES AND A STREET, and to yet and the processes are processes and the processes are processes and the pr

elevation that there is a rapid fall of level on its way to the sea, and it cuts a deep bed for itself through the country it drains. In dry weather it is often a small stream, with more or less stagnant pools, but in the rains it becomes a foaming torrent, and the sight of this great volume of water dushing through its tortuous gorge of white marble near Jubbulpore, where there is also a magnificent fall, is peculiarly fascinating.

Fierce Heat both Dry and Moist

For most of its course the Godavari flows through Hyderabad from its source in the Bombay Presidency. The Kistna and its tributary the Tungabhadra divide Hyderabad from the Madras Presidency, and therefore provide the southern limits of this chapter.

In this wide sweep of territory a variety of climates prevails. In the United Provinces, which lie outside the tropics, there is a fierce, fiery heat during May and June and a moist and very oppressive heat from then on during the rains until the end of September; but from November to March there is a delightful climate with no rain, except a few showers at Christmas, sunny days and cold and sometimes frosty nights. A mean of 94° F. in June at Agra and 60° F. in January gives a good idea of the range of temperature, and there is an average diurnal range of 24° to 30° in the winter, 24° to 28° in the hot, dry weather and 11° to 14° in the rains. The rainfall varies considerably, from 27½ inches at Agra to 50 at Gorakhpur.

Wide Range of Temperatures

In the Himalayan tracts it is heavy, 97 inches at Mussoorie and 102 at Naini Tal, and landslips are frequent. The provinces possess several charming hill stations in the Himalayas: Naini Tal is the seat of the government during the summer, Mussoorie is very gay and Ranikhet, Almora and Dalhousie are quieter and more restful retreats.

The climate of the Central Indian states is hot in summer, especially in the north, and cool and bracing in winter, and this applies to the Central Provinces, which seldom have any oppressive heat in summer, possessing one of the best all-round climates in India. Temperatures vary in the Central Indian states from a mean of 60° in January to one of 92° in May, with a diurnal range of 26° in winter and 11° in summer. In the Central Provinces there is a variation from a mean of 62° in January to 92° in May, with the same diurnal range. Rainfall in the Central Indian states averages 30 inches on the plateau and 45 on the low-lying tracts, and in the Central Provinces the annual average is 47 inches, varying from 32 in Nimar to 62 in Balaghat. The Central Indian hill station is Pachmarhi, on a plateau 3,500 feet up, in the Satpuras.

Effect of Climate on Scenery

The variety of aspect and climate extends to scenery. The plains of the United Provinces gleam green in the spring and golden in the harvest-time with fields of waving corn and other food-crops, mingled with wide patches of sugar-cane, and from this glorious carpeting of green and gold, unbroken by aught else, rise, at frequent intervals, groves of dark olive mango trees, tall, slim palms and clumps of brighter nim trees So highly marking a village street. cultivated is this region that this is its general aspect, but there are sandy riverine tracts where only coarse grasses and deep-rooted perennials flourish, and in the drier parts of the south vegetation becomes scantier, trees and plants are thorny and desert types appear.

In the north, bordering Nepal and the base of the Himalayas, are broad tracts of swamp-ground, thickly covered with jungle grass sometimes attaining a height of twenty feet, and belts of jungle-land, some lightly clothed with thin grass and thorny trees, others clad with dense jungle where impenetrable thickets of spiked cane and bamboo make travel, except on elephant-back, impossible and a wealth of orchids lies concealed. And beyond this great tract, extensively flooded during the rains, when it is



CLOTHES AND SINS BEING PUBLIFIED BY THE WATER OF THE HOLY RIVER Hundreds of thousands of people come to bathe in and drink the waters of the Ganges at Benares, for by so olding they win a remission of their sian. The city is the great northern centre of the worship of Siva and it is estimated that the annual number of pilerins who visit it exceeds one million, while the population of the town tivel is about 20.01.

very malarious, stretches ridge after ridge of densely-covered hills, gradually rising and gradually shedding tropical vegetation until the region is reached of deodar and blue pine, spruce and yew, maple and silver fir, birch and willow, dwarf oak and rhododendron, and thus onwards and inpwards to the long majestic hine of the eternal snows Few large trees exist in the Central Indian states, but farther east in a direr region they are more plentiful. The hilly tracts are a mass of tangled jungle growth, tall forest trees and coarse weeds lining the sides of rock-strewn watercourses and deep rawnes. An occasional patch of green, by the side of a few coarsely-thatched huts, marks the

homestead of aboriginals, Bhils, Gonds or Korkus. Farther south, the Central Provinces show a remarkable contrast of woodland and tillage, with most pleasing alternation of hill and dale. Dark green hillsides flank wide stretches of corn and rice land, here and there gentle slopes are clothed with grass and dotted with trees of a noble size giving the land a park-like aspect, and from the Satpuras, clothed with forest from base to summit, there is a view of rolling steppes of basalt threaded with fertile valleys and of continuous cultivated plain, with dark forest-clad ranges on the sky-line.

Haunts of the Big Game

The jungles and grassland of the Terai and the Siwaliks in the United Provinces form a veritable paradise for the hunter of big game. Here wild elephants roam in herds, tigers, leopards and black bears are common, wolves and jackals abound, and the rhinoceros and wild buffalo are encountered occasionally. The loss of life and the damage to crops is heavy.

Other game includes antelope, nilghai, black buck, sambar, chital or spotteddeer, barking deer, gond or swamp deer and wild hog. These animals are also to be found in the Central Indian states and

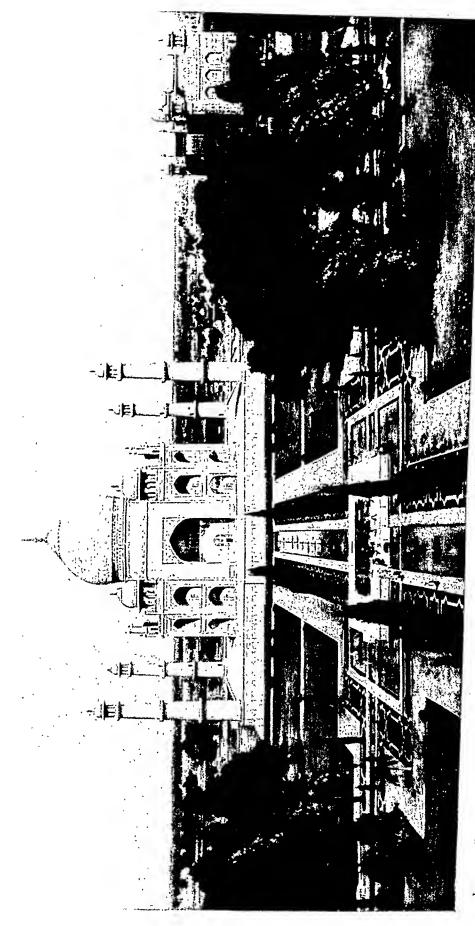
abound with edible fish of many kinds. Chief domesticated animals are horses—the only good ones hail from Mecrut in the United Provinces—buffaloes, cattle, sheep and goats. The cattle of Mecrut and Rohilkhand in the United Provinces and the Malvi and Nimari breeds of Central India are the best.

The soil of the United Provinces, for the greater part an alluvium brought down mainly from the Himalayas, is well adapted for almost all kinds of culture. This, combined with an abundance of water from the snow-fed rivers of the north, while the gentle slope of the land makes irrigation easy and therefore general, enables nearly forty million acres to be cropped twice annually. Food-grains are produced in large quantities. In barley, maize, pulses and other secondary crops, the United Provinces stand first, while in the various millets they are exceeded only by Bombay and Madras. Rice grown on the clays is an important crop, and in wheat production the Punjab alone exceeds them. More sugar is produced than in all the rest of India, and cotton is an important crop, as are poppies, linseed, mustard, hemp, indigo and tea.

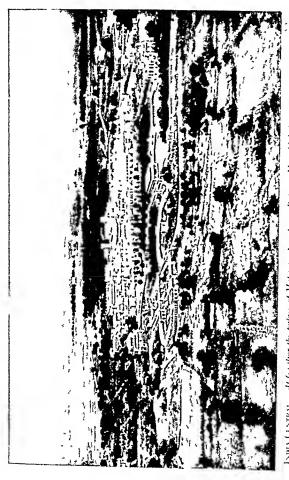
Fertility of the Black Soil



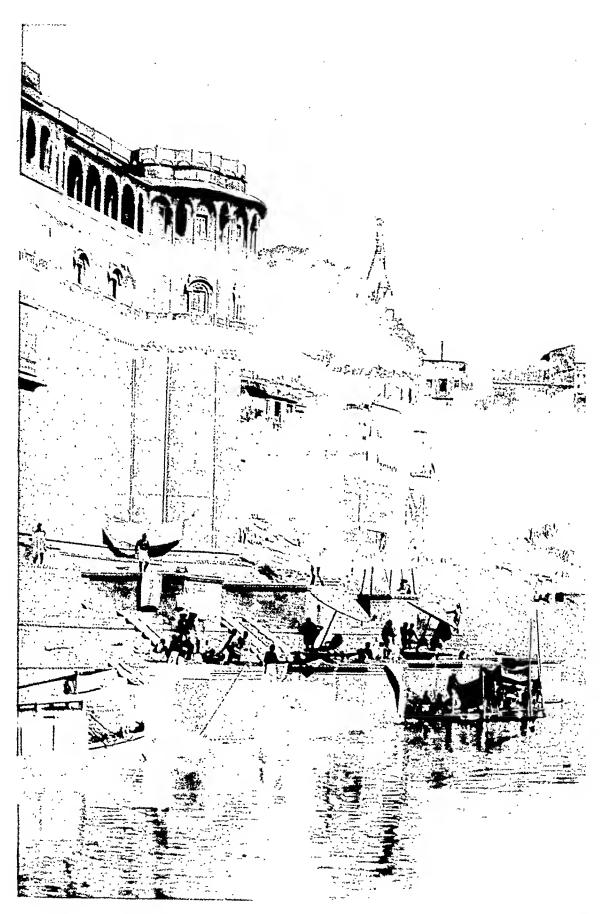
Prince Corners. Where extress at a fromuon eleft into one cattle make the note of ears end to ead their fineled high



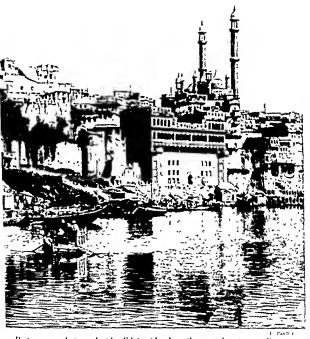
INDIA CENTRAL. On the bank of the Junna east of Agra City stands that "Dream in Marble," the Taj Mahal, erccted by Shah Jehan as a tomb for his favourite wife, and often extolled as the most perfect work of human hands



JATEM ALGA HOT the patase of Matemata Senter famous old fort, stands eithen the pleasent space. This P



India Central. Veneration for the Ganges, with which no othe Indian river can compare in sanctity, is a chief article in Hindu creed



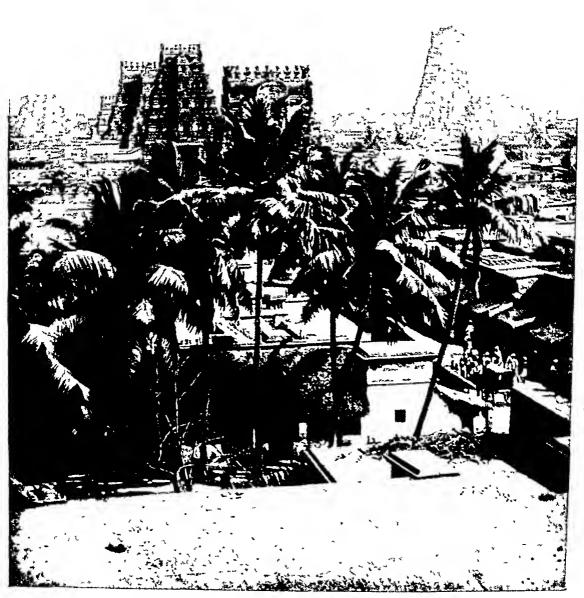
Picturesque ghats and splindid temples line the sacred waters at Benares, the metropolis of Hinduism and resort of countless decout pilgrims



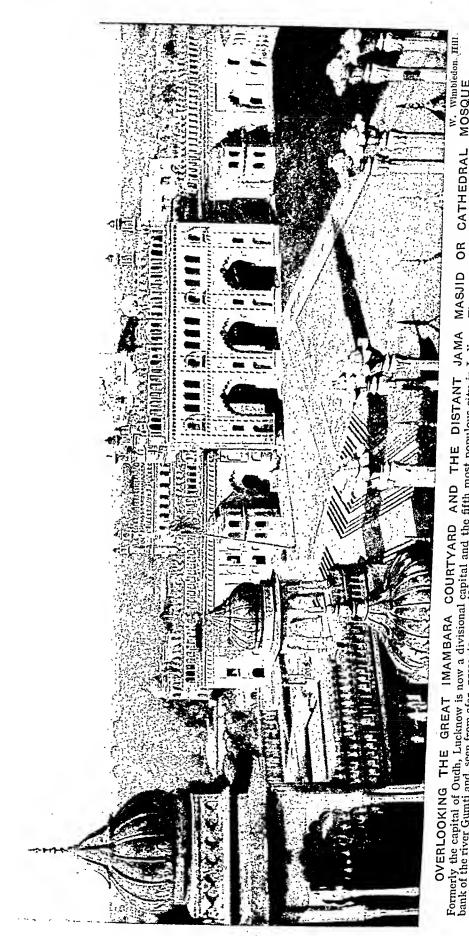
India Central. In agriculture, the mainstay of the immense majority of the people, more than half the working population is female. Here some housewives are down by the river to fill their water-pots and do their washing



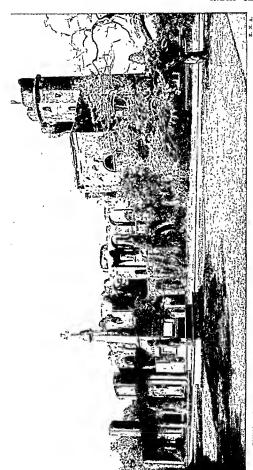
INDIA CENTRAL. In the Mrant of H3 terabads, dominious is Dandatab of a forties of the thirt outle outers coordinated content roof of grantle, soo feel high and made unpergradit by a steep natural everyment.



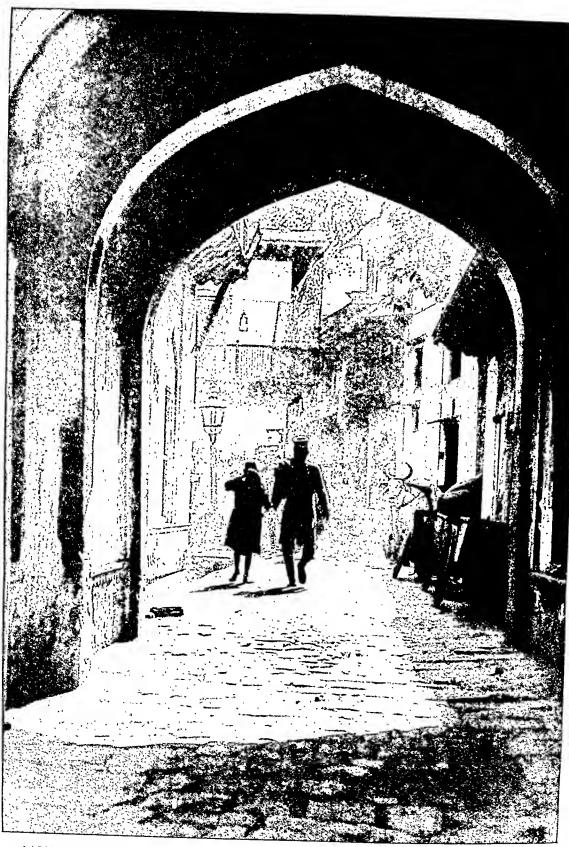
India Southern. Pyramidal gate towers of elaborate design, like these at Truchinopoly, are a feature of the great temples of the south



W. Wimbledon, Hill Formerly the capital of Oudh, Lucknow is now a divisional capital and the fifth most populous city in India. The greater part of the city extends along the right bank of the river Gunti and, seen from afar, presents a magnificent spectacle with its numerous domes and minarets. The great Imambara and its mosque, which stand west of the Residency, were built in the eighteenth century by Asaf-ud-daula. The courtyard is entered by a handsome gateway; the colossal structure of the Imambara rises on the south side, the lofty mosque on the west—a portion of it, and of the steps ascending to it, is seen above on the left



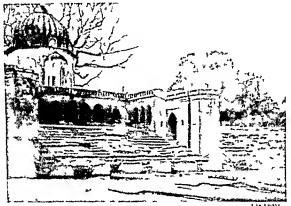
RESIDENCY COMMEMORATING AN HEROIC



LIGHT AND SHADE UNDER AN ARCHWAY IN THE BAZAAR OF LUCKNOW The climate, parks and gardens of Lucknow make this city of India a very pleasant place of sojourn. Many interesting scenes are witnessed in the bazaars, which, although they have lost something of their old-time prosperity, still fascinate the stranger with numerous articles of luxury in silver, gold and ivory, though clay models have superseded the famous terra-cotta models of Lucknow

which Mera lal at too is noted. Porcelain is immulationed at Glazipur Tuckin improduces embro lety and the moted chikan work of silk cotton or muchin makes paper has discourds and is fan ed for its laid rowork and fire works. Mizaja ir weaves excell not carpets, Al sath. Meerut and Bareilly have and Bhandara being still in large request. Leather working, employs neath 100,000 persons

In the Central In lean states Malwa was once famous for its fine cloths and mushus and the industry a still treserved at Chanlan where delicate mushus often shet with poll and silver



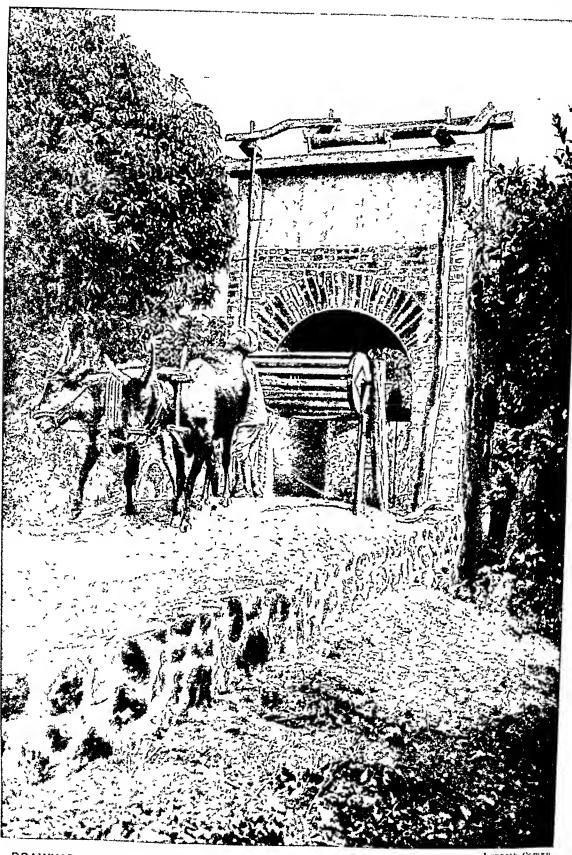
SUTTEE CHOWRA GHAT SCENE OF THE MASSACRE AT CAMMPORE
Biglat with riletur peanswips membered to a shall to giteld to were material to a their kinds of the control and probabilities and their to great a ling of the Camprored as nife a great to the control and their to a their to be a first predatable in their to a their to be a first predatable in their their their transfer of their transf

cotton factories and the latter makes furniture. Hardon and Hathers have cotton mills and Allahaland stone works

Indu trial life is in its eathest development in the Central Provinces but Nappur is already the centre of a very birsy cotton symmin, indu try and there are mills in several parts of the provinces. Generally spealing, however the articles are manufactured by land and designed to meet the wants of a primitive agricultural population and have little artistic muit. Silk is woven and it endinstry supports some 1000 persons the silk bordered loin cloths independent of Nappur Burlianpur.

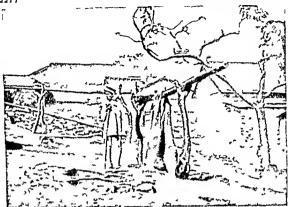
thread are made and exported all over India whil the sams and dhotyadas of Valueshwar have a considerable sale. Indiad metal work is manufactured at Rampura in Indore and there is an extensive stone-enting industry about Gwalior where local sand tone is circulawith great skill. Both in the Central and United Fronnees there is a government department of industry which assists in indiag new industries and expanding existing offerings.

Communications are best in the United Provinces where much traffic is still carried along the rivers as well as on many of the main irrigation



DRAWING WATER FOR THE PARCHED SOIL FROM THE BUNGALOW WELL This simple appliance is a large leather bucket attached to a rope which passes over a pulley above the well-head, and is fastened at the other end to the yoke of a pair of bullocks. They drag up the bucket by walking down a ramp, which is approximately equal in length to the depth of the well. Some kind of well is to be found in the compound of every bungalow

INDIA CENTRAL



CRAFTSMAN OF CENTRAL INDIA AT HIS SIMPLE TANNERY

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WASHING AND DRYING GRAIN IN A CENTRAL INDIAN VILLAGE
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garden crops the cultivation of wire at and 1 artey is limited to northern and ce trail it is

INDIA CENTRAL

canals. Good roads exist in all directions. The Grand Trunk Road from Calcutta to the north traverses the provinces and an excellent railway system links up all the chief towns with Bombay and Calcutta, and with south India. The Central Provinces and Central Indian states have water communications of little value, but their roads are good, much fine stone being casily obtainable locally; the main road from Bombay to Agra, an historic thoroughfare, passes through Indore and Gwalioi. Both possess good rail facilities in the main lines from Bombay, to the north, and Calcutta.

Central India's very considerable foreign trade is conducted through the ports of Calcutta, Bombay and Karachi, but the United Provinces have a fair trade with Tibet and Nepal conducted by means of sheep and goat transport

or by ponies and pack-bullocks; barter is the chief method of exchange The mechanism of internal trade is very simple. The greater part of it is rural and so markets are held at convenient centres two or three times a week. Surplus produce is either handed over to the village grain-dealer, sold to itinerant buyers, or disposed of in the markets. Banking being confined to large towns small transactions are in ready cash and payment is preferred in silver rupees rather than in government currency notes. The chief exports are: sugar, raw cotton, wheat pulses and millets, oil-seeds, dyes, tans, lac, hemp, hides and skins and tumber; imports: piece-goods, rice, salt, coal, railway plant, metals and hardware.

Lucknow is the largest city of the United Provinces—the splendid capital of the Kings of Oudh in the days when



INDIA CENTRAL



TOWN OF NAINI TAL VICWEO FROM ACROSS ITS DEAUTIFUL LAKE SAID TAL the sucress fill stail each the Lotter Province and a duttation like in the district of Naid Talon the Limalization from a site fitting in State and its real follows in the critical period of the Talon in the critical period as it from 11 (a, b) in Episconia the attraction of Particular III (a, b) in Episconia the attraction of Particular III (a, b) in Episconia to a late from an Iaou spanis from I has mod stabiling feature

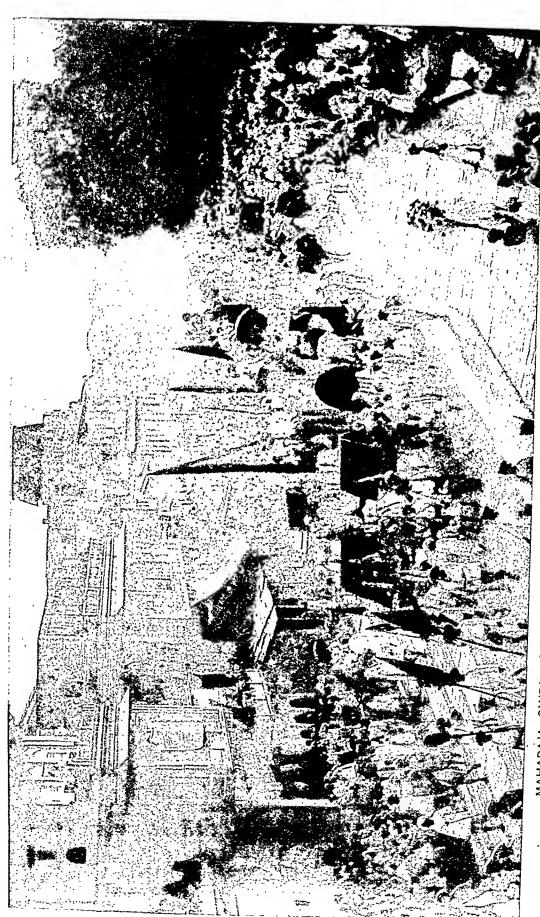
Ondis was independent and which, till then little known, role to influence in Mogal times and to greatness when the Mogals fell. To-dry it is one of the most charming, be fail out and up-to-drit cities in India, low lying by the braks of a ple isant river, the Gunit, and fully deserving its title of "India's garden city." It has broad and right roads often tree-lined greating squares, picturesque public gardens and a park where the seenery in places is peculiarly Linglish.

Allahad, bearing a Moskim rame given to it by the great Akbar, owes its importance to its sacred position at the junction of the holy Gauges and the Junna, and it is this which attracts thither at certain times of the year millions of physims to brathe in the sacred waters When these tworners are

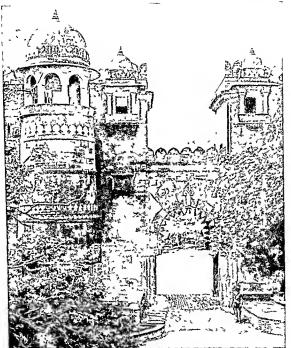
in flood Allaland, which hes between them, seems almost surrounded by a swiftly moving minddy sea. The native city, on the high bank of the Jimma which is spanned by a fine bridge 3 265 feet in length, is a net-work of narrow streets with a few mun roads.

Ikmres is the most sacrid city in Ikmres on the west side of a broad bend of the Ganges Four miles of clostly-preked buildings line the river's bank, their frontage mostly occupied by broad bything glaifs or terraces

From Beariers let its go to Agra, and see its Taj Malril. This was built at coormous cost by the Limperor Slith Jeliun in glorious and loving memory of his beautiful wife Muntar Malial, and is a dream in merble. Seen by moonlight it seems to float in the air, a farry phruitasy, a marvillous conception in



Daulat Rao Sindia pitched his camp on MAHARAJA SINDIA OF GWALIOR PASSING THROUGH LASHKAR IN ORIENTAL Lashkar, the capital of the state, lies two miles to the south of Gwalior, which occupies the site of the old city of Gwalior. the open plain south of the fort in 1794, and as the camp remained the new city of Lashkar sprang up. is one of the finest thoroughfares in India. Since the occupation of Lashkar the Old City, a crowded

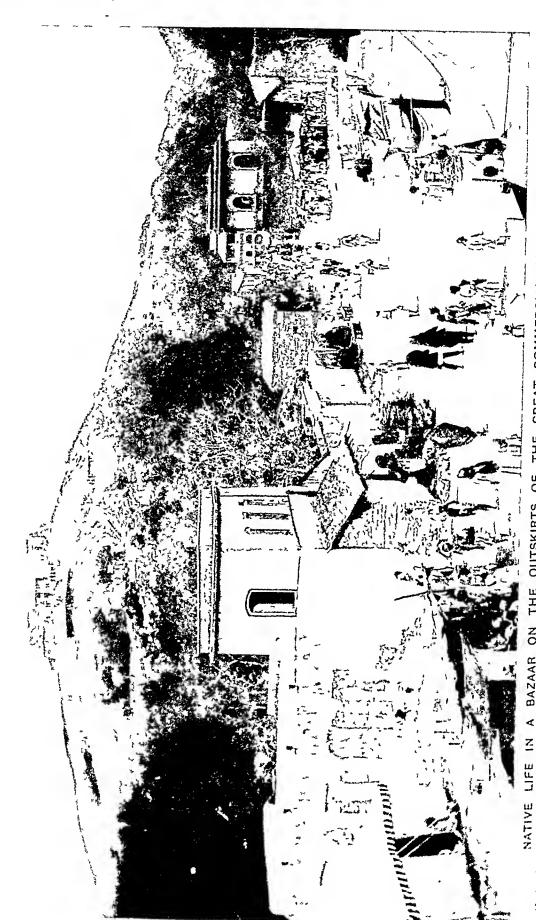


MAIN GATEWAY INTO SINDHIA'S MIGHTY HILL-PERCHED FORTRESS
The famous fortress of Gwalior is situated on the assumed of a precipitous flat topped and isolated bill. The walls are from 30 to 35 feet high and the rock unmediately below them is steeply scarped all round the hill. Within the fort is the palace of Man Singh, built in the yeurs 1456 x316 the walls of which are covered with most beautifully coloured fules.

architecture All that has been written can convey no adequate idea of the spell this building casts, of its simple appealing beauty by day or its witchery by night

The city proper clusters by the river round the fine old fort of red sandstone built by Akbar and captured from the Marathas by Lord Lake in 1803 and within the fort the walls of which are 70 feet high and their circuit a mile and a half, are the white marble buildings of the Diwan 1 'Am or Hall of Public Audence, and the Diwan 1 Khas or Hall of Private Audience of the Emperors

Cawnpore has become not only the leading commercial city in the United Provinces but the leading commercial city in India in the manufacture of



it has of the over Must, it is an important commercial centre, and its picturesque bazaars are crowded with native traders from all parts of Connected with the great railway junction at Secunderabad and The state of state of the wetade hes Golconds, while the residency and the barrars are in a suburb called Chad urghat on the north east COMMERCIAL CITY OF HYDERABAD THE OUTSKIRTS OF THE GREAT " securified the native state of the same name, is the fourth largest city in India

woollen and leather goods, and this, with a huge output from its cotton mils, has earned for it the epithet of the "Munchester of Upper India"

Bareilly is an important inilitary centre, also Mecrut, an ancient town, where the Indian Mutiny broke out in May, 1857. Aligarh is a famous centre of Mahomedan karning now owning a mincersty; Saliarampur has noted botanical gardens and is a great fruit-growing centre; Hardwar is on the Ganges where it leaves the mointains, and therefore a great Hindii pilgrim centre and also the site of the headworks of the Upper Ganges Cann!

The Central Provinces have few towns of outstanding importance. Nagpur, the capital and centre of administration, is situated by a small stream, the Nag, in an open plain on the south-east but flanked ninth and east by basalite hills. Jubbilipore stands 1,333 feet above sealevel and in a rocky basin surrounded by low hills about six indes from the Narbada river. An important military station and a commercial and industrial centre, it is a well built and prosperous town, with broad and regular streets.

Of the towns of the Central India Agency, Gwaltor is the most interesting, on account of its fortress, the most famous in India, which contains the beautiful mansoleum of Mahomed Shah

Indore, 1 738 feet above sea-level, is of fairly modern foundation, but the old palace is a lofty and imposing The town is one of the largest trade centres of the Central India Agency, and Whow, not far distant, is an important military station Bhoral City stands on the edge of a great lake, with a larger one lying to the west, and few cities are situated so picturesquely From the lake shores the city rises tier on tier to the crest of a ridge behind, 500 feet high, an irregular mass of houses relieved with clumps of vegetation in the many gardens, while in the centre tower the dark red minarets of the Jama Masjid crowned with glittering golden spikes

Hyderabad, capital of the native state of the same name and residence of the miram, is the fourth largest city in India, with a population of over 500,000, Secunderabad near by is the great railway junction of the state

INDIA CENTRAL GEOGRAPHICAL SUMMARY

Natural Divisions The middle portion of the Indo-Gangetic Plain, with the edge of the northern mountains (see Bengal). A wedge of the Decean plateau, with its scarp facing the plum and with the Lastern and Western Ghats on the other edges. The inland heart of India.

Riters Across the pluns, the Ganges and its two great northern tributaries, the Gogra and Junina, with minor tributaries from the Deccan The floods of these three great niers provide water by irrigation channels for the crops Across the plateau, the Mahanadi and Godavari, flowing eastwards like the northern niers Between them, in shirp cut valleys flowing westwards, the Narbida and Taph rivers

Climate Monsoon, cool dry winter, hot dry errly summer, late summer ramy and hot, with a relatively small durnal variation in temperature. The monsoon rams are most definitely marked on the plans where the monsoon advances from the south-ceast

Vegetation and Bhabar the Deccan Alluvial plains in all the

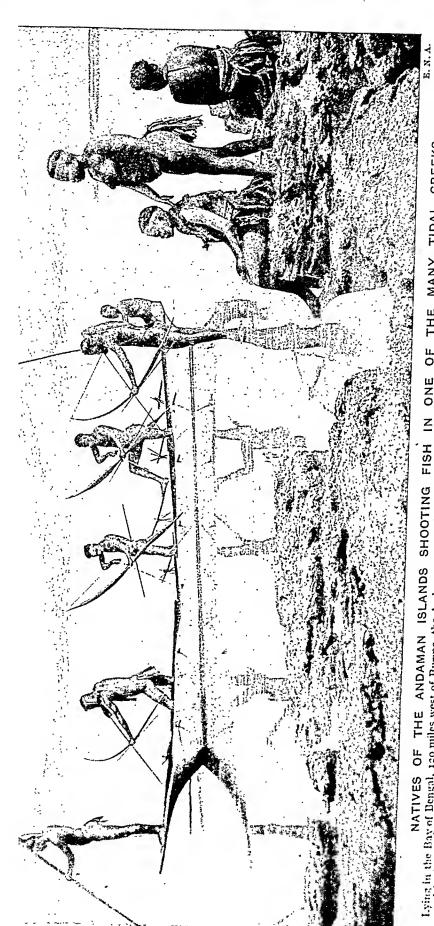
river valleys, naturally grass-land with few trees, generally entirely cultivated, sometimes to yield two crops annually

Products Agricultural Wheat, n'tive food grains, cane-sugar, rice, cotton, opium, indigo, tea, linseed, tobacco Most of the crops are consumed locally Forest Teak, satimood, my rabolams, eutels, lac Minicral Manganese, coal, bauxite, asbestos Manufactured Cotton and silk goods Carpets Embroudery, leather goods

Communications. On the pluns, roads and rivers are in use in addition to the railway system Good roads on the plateau supplement a less extensive system of railways. All lines of communication are used to connect this inland area with the coast, especially with Bombay and Calcutts.

Outlook The striking contrast between the primitive hill-people of the httle known hill country of the southern districts and the energetic seemi-industrialised dwellers in the great cities of the plans is typical of India as a whole. The inture hes in the gradual development of a self contained people by training and education towards

a higher level of civilized life



Lying in the Bay of Bengal, 120 miles west of Burma, the Andamans comprise over 200 islands, the coasts of which are deeply indented and contain a number of specifical britishms. The islands are exceedingly hilly, the Saddle Peak in the North Andaman rising to 2,400 feet, with narrow valleys intersecting the hills and the whole covered with dense tropical jungle. From 1858 the islands were utilised as a penal settlement by the Indian government, but this practice has now been discontinued. A small quantity of redwood-timber, coir and fibre is exported

INDIAN OCEAN & ITS ISLANDS

Scattered Relics of a Sunk Continent

by Marion Newbigin

Author of The British I mpire Beyond the Seas etc.

B FORI the existing continents and occurs had assumed that present form a great land mass is believed to have occupied the site of the Indian Occur. The plateaux of the Indian Occur are broken parts of this old land the intervening area having sunk below sea level.

Part of the evidence upon which this deduction is based is derived from the fact that not only in the great island of Madagascar, but also in the smaller islands of Maintins and the Seychelles very old rocks occur which must obviously have once formed part of a continent Turther the three areas named no less than the island of Socotra off the horn of Somaliland which also contains ancient rocks are characterised by peculiar floras and faunts which suggest that all formed asylums for land plants and animals at a time when great subsidence was taking place around them

Porces Constructive and Destructive

But if we have in this way evidence that land was once more extensively developed in the region of the Indian Ocean than at present and thus that land destruction lins gone on there is evidence also of constructive or land making forces Thus in Mairitius and more markedly in the neighbouring island of Reumon as well as in the Andamans in the Bay of Bengal notable volcanic peaks occur the seas which wash the islands named are warm and well fitted for coral polyps which build up reefs wherever they can find a substratum on which to settle. In some cases notably in the Laccadive Maldive and Cocos

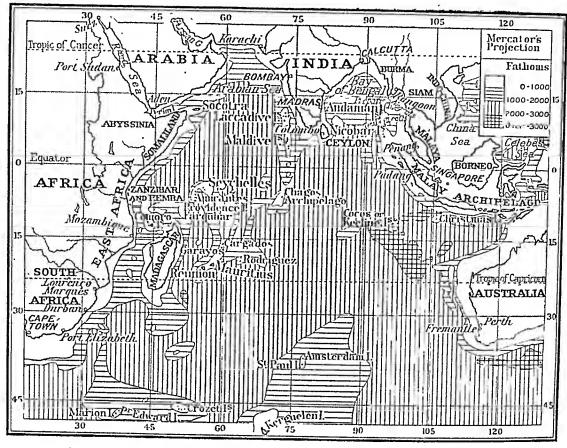
archipelatoes no rock other than cord is visible. Ascular, the volcame or sedimentary rocks forming the bulk of the islands are fringed by cord rocks. In the former case the hight above sea level is slight, the stormy monsoon winds tend here to break away masses of cord rock, and there, to accumulate sand and frigments. Not infrequently as in the Valdives, the wearing action of the waves seems to predomant, over the budding up processes, so that the total land surface is diminishing.

Coral and Nolean c I roducts

In most of the coral islands the eccount palm is the chief plant of economic importance and the fisheries usually melading turth form an important addition to the otherwise limited diet of the inhabitants. Where volcame or sedimentary rocks occur on the other hand the ruled is much more marked and the runfall allows of in leavy growth of tunber on the slopes. Where the land has been cleared the cultivation of a number of tropical products including sugar-cane is possible.

It is thus apparent that the islands to be considered in this chapter are of two main types the high and the low and in the Indian as in the Profic Ocean it is the former which is a rule are the more productive. Of the high islands of the Indian Ocean again the Mascarene group melinding Maintinis and Reumon is economically the most important.

Maintain named by the Dutch in honour of their Prince Wurice hes in lit 20° S about 500 miles east of Midagascar and has a total area of over 700 square miles. Save in the morth it is mountainous the highest peak.

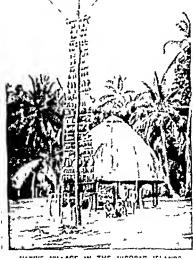


SUBMARINE RIDGES AND CHASMS OF THE INDIAN OCEAN

rising to 2,700 feet, but considerable plains lie between the hills and the coasts are low and fringed with coral reefs. The rocks are predominantly volcanic and weather to make fertile soil which, combined with the warm, damp climate, renders the island remarkably productive. The rainfall is heavy, especially in the months of January and February, that is in the southern summer and the island is continuously exposed to the south-east trade wind which makes the otherwise good harbour of Grand Port, in the south-east, of little value. From the human standpoint, however, the most important feature of the climate—and one shared with Réunion—is the liability to tropical cyclones. These revolving storms originate to the north-east of the islands and sometimes sweep round them in a semicircle, causing terrible devastation. They are most likely to occur in the early months of the year.

Originally Mauritius was well wooded, but the forests have been largely destroyed and the peculiar native plants to a considerable extent replaced by others introduced from India. The most interesting feature of the native fauna was the presence of gigantic land-tortoises and of the flightless dodo, a large bird related to the pigeons. Both tortoises and dodo have long been extinct. There were no native land mammals save bats when the islands were first discovered—a fact of much theoretical importance—but pigs, deer, hares, rats, monkeys and others have since been introduced.

Many of these, especially the pigs and the rats, have played a considerable part in exterminating the indigenous animals, though the navigators of the days of sailing slips, who used to stop at the Mascarene islands on their way to India to re-victual, were responsible for the disappearance of the tortoises and peculiar birds. Of considerable economic importance is the introduction of many kinds of mosquitoes which have established themselves in Mauritius, breeding





At a distance of some 500 miles from the eastern coast of Madagascar lie the three volcanic islands, Mauritius, Reunion and Rodriguez, of the Mascarene group, so named after the Portuguese discoverer, Mascarenhas. When discovered in the early sixteenth century Mauritius was uninhabited, now it is one of the most densely populated regions in the world. It is 39 miles long, 29 broad and its area is 700 square miles, while the population is over 384,000. This beautiful view is of the lofty hills in the south-western range, looking down, on the Black River district FAR-REACHING VISTA IN THE HEART OF THE SOUTH-WESTERN HIGHLANDS OF RUGGED MAURITIUS

active during the eighteenth century but is now more or less quiescent, the last notable eruption being in 1860

Owing to the precipitation of moisture from the south-east trade wind on the mountain slopes, regetation is highrant. and a considerable area of forest still remains fit climate, and in the characters of the original fruma and tiora there is much general re-emblance to Mauritius, Reunion having formerly find a peculiar species of dodo of its own But the economic development of the two islands has been different. In carly days coffee was the chief crop in Reunion, and though the coffee plantations have been largely replaced by sugar, the latter has never taken the predominating position it has assumed in Mauritius, having suffered more benealy from the general collapse of the cane sugar industry. Even the Great War did not cause such a revaval as in Mauntius, and though sugar and rum long the chief exports, manioc, coffee, tapioca, samila and spices are all cultivated on a fairly extensive scale.

Population and its Distribution

The population of about 173 000 is, owing to the rugg of interior, chiefly confined to the coast, though leafth resorts occur among the mountums, especially in the regions exposed to the trade wind. St. Denis situated in the north of the island, is the chief town and is connected by a tunnel with Pointe des Galets, its port. Rulway construction is everywhere difficult, owing to the institute of the rule!

So lar as official statistics are concerned, the composition of the population offers a striking contrist to Mauritius, for almost all the inhibitionts are entered as Europeans of French origin, there being only about 3 000 British Indians and 1,000 Chinese, with smaller numbers of negroes and Aribs In point of fact, however, there has been much interbreeding, and lumbes of pure French stock are in a minority Trade is carried on chiefly with France, and the visiand, which is represented in

the French parliament, is administered by a governor who is assisted both by a privy council and by an elective council general

Largest Leuits in the World

About a thousand miles north of Manritus, in lat 4° S, lies the Seachelles archivelago, standing on the same submarine "rise" as that which tears Manritius The group is made up of a large number of islets, but not more than six are of any universance. Mahe being the chief The total land area is estimated at over 150 square miles, of which Mahit constitutes a full third. In a sense the islands may be said to be transitional between the "high" and the "low" groups, for although they are mount mous, rising to 3,000 feet, and are composed of eranite and volcame rocks, they are surrounded by wide coral reefs, and the cocount prim is the most important economic tree

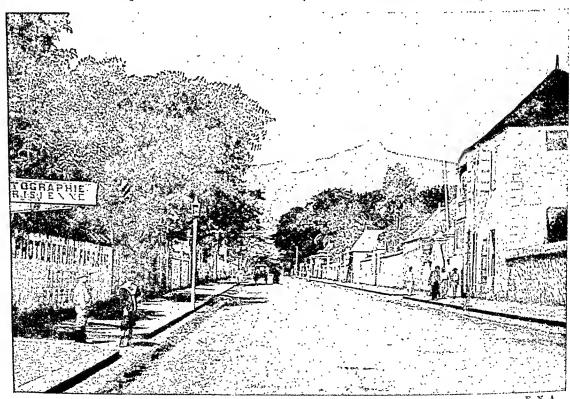
lake the Mascarene group, however, they have, or had, peculiar animals and plants, the former including a large fund tortoise and the latter the remarkable double coconiit or coco de mer palm. The fruits of this tree had been found florting in the Indian Ocean by invigators long before their origin was known, and gave rise to a variety of moths. The palm which produces them grows only in two of the similar islands of the Seychelles group. The remaining specunens are now protected by the concernment. The fruits are said to be the largest known in the plant world, and take ten years to ripen. It is very difficult to believe that so exceptional a plant could be evolved in a small island area, so that the existence of the Seychelles paim forms part of the evidence of the former presence of a large land mass in the Indian Ocean

Strategio Position of the Seychettes

The climate of the Scychelles is hot and wet, but not unhealthy, and a great variety of plants can be grown; coconuts, as already stated, predominate,

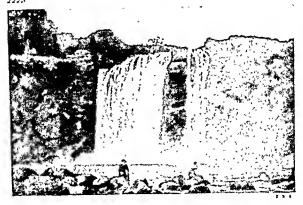


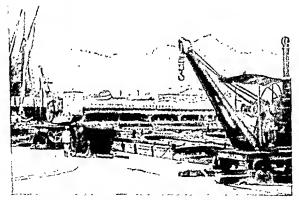
IN THE BANKING QUARTER OF THE CAPITAL OF MAURITIUS
Capital of the island of Mauritius, Port Louis is situated on the north-west coast at the head of a good harbour; both town and harbour are well fortified, the latter, an inlet of about a mile in length, being sheltered by reefs and protected by forts. The town possesses several important buildings; the savings bank is seen above on the left, the Bank of Mauritius on the right



HEIGHTS OF THE NORTH-WESTERN RANGE OVERLOOKING PORT LOUIS
Surrounded by high hills Port Louis is far from healthy and the lack of sufficient tide in the harbour augments the difficulty of an efficient drainage system. One of the three chief mountain ranges of the island lies in the vicinity; known as the Pouce range it consists of several lofty spurs, two of which, Pieter Botte, 2,676 feet high, and the Pouce, 2,650 feet high, overlook the capital

INDIAN OCEAN





Mamilius taland has say miles of railway, no inland navigation, and its capital, Dort Louis, has the only rood harbour. Nevertheless, there is a flouishing export and import trade, chiefly with the Urited Kingdom, South Arice, Australia, India, France, Reunion and Madagascar, and the wharves of Port Louis are a centiced extitictly at all times. Sugar, also three and contout clair stapping exports

INDIAN OCEAN



BEAUTIFUL INLET ON THE RUGGED MAURITIUS COAST

Mauritius island is a hilly mass of volcanic origin, spread with a wildly luxuriant vegetation, surrounded by coral reefs and intersected by fertile valleys. The hot, moist climate with its sweltering wet season is generally unhealthy, especially around the coast, and the cooler uplands of the interior contain the residential quarters, the town of Curepipe possessing a climate not unlike that of south France

the product being chiefly exported in the form of copra. Vanilla, clove oil, committee oil and tortox-schill are also exported, and a certain amount of livestock is kept. The chief town is Nettorn, in Malé, and the population, which is of mixed blood, numbers about 25 000. The island, which are fluitish, have a certain strategic importance, for they he along the route from Bombay to Last Africa and on that from Alen to Munitus, but their economic semiferance is not great.

The man interest of the Laccadive and Maldive architectucoes lies in the fact that both are made up of typical coral islands. In this connexion it is worths of note that the word atoll, now universally used to designate ring shaped cord reefs with a central lacon is of Maldivan origin Laccidities lie off the Milibir coast of India in about lat 12 " N, while the Valdayes extend to the I quator The latter group contains a greater land area and has a larger population than the Laccadives, many of which are unuiliabited islets The had rank rises more than 20 feet above sea level and the coconnt palm occurs every where I islame is extensively carried on. the bonito, a lind of mackerel, being especially sought after. Among other marine products mention may be made of the cowry shell, formerly undely prized as an orninient and means of exchange, and still exported from the Maldives to Africa to serve as money

Paperts from the Maldives

The islanders are all Moslems, and apparently of very mixed stock. In the Maldives, apart from the ulinquitous economic palm a little mixed cultivation is carried on, but grain, in the form of rice, has to be imported. The exports consist of the produce of the palm, smoke dired fish and small amounts of minifictured goods, such as corropes, mats, suls, briskets and so forth. The water supply presents difficulties, wells containing brackish water occur, but run water is also

collected as it trickles down the trunks of the lofty palms

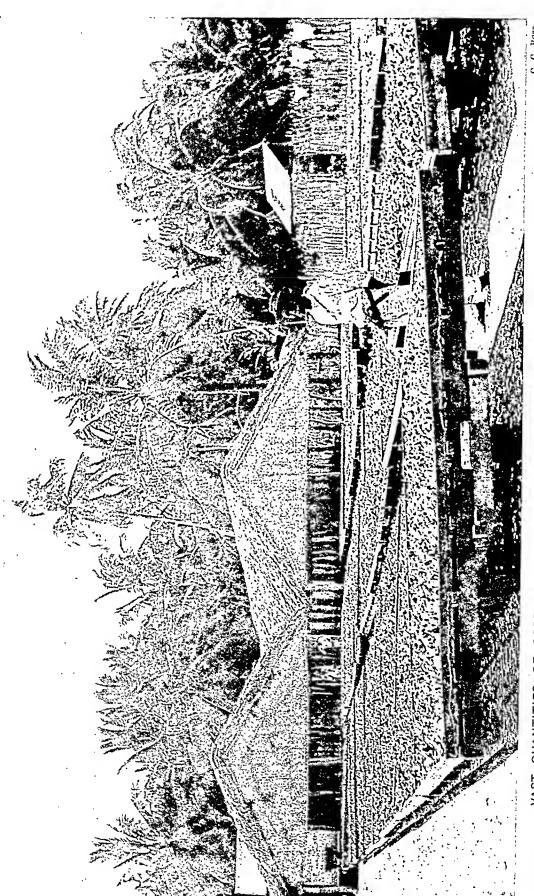
The Andrian and Nicobar islands he to the east of the Bay of Bougal and are of different origin from any of those act discused. The Arakan Yoma of Burna, a chain of young fold moun tuns of the same are as the ilimalayas et broken off short at Cure Negrus but beyond Prepares Channel the same chain appears to be continued in the " festona of the Andunans and Nicobars which are separated from one another by Ten Degree Channel eroms consist of recent sedimentary rocks with marginal coral ricks but the Andamans contain volcanoes of which that of the small Barren island was active in 1857 and 1858

Wet. Unbeelthy Andemens

The highest point of the Andrinans reaches 2,400 feet, the Nicobars being somewhat lower The former, with a total are a of 2 200 square index, consist of the Great And man group with three large islands the southernmost containing the cantal, Port Blur, and of Little Andmin to the south. All are densely wooded, producing a valuable funler called redwood. The much smaller Nicobars consist of three groups, the largest being Great Nicobar in the Here, too the coconnt prim flourishes, giving rise to a small export tride in copra and cor fibre And mans have in the past been used by the government of India as a penal settlement, but no more convicts an to be sent. A certain amount of planting has been done, including coconnits rubber, hemp and aloes and it is hoped that this may be increased, though the chmate is wet and unhealthy

Dying Itace of Pygmics

The real interest of the group, however, hes in its mist enhabitants. The Andamanese, who are steadily dying out and do not exceed a thousand, are occume pygnites or negritoes also found in the Philippines and in the Malty pennisula. They are under five



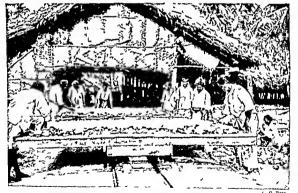
the ecconut and is obtained for the sake of its oil which is extracted by pressure or slow boiling and constant skimming. As the name Cocos Islands implies, the eoconut is the chief product and is cultivated on all the islands, which are covered with forests of eoconut palms. COCOS ISLANDS at Port Refuge which handles the trade of the group, exporting coconuts and coconut oil and importing foodstuffs THE SCORCHING SUN QUANTITIES OF COPRA

INDIAN OCEAN



ONE STAGE IN THE IMPORTANT INDUSTRY OF THE COCOS ISLANDS.

The Cocos or herling group some twenty coral Islands in the Indian Ocean positive south west of
Samatry has been a depen lency of the Straits Settlements since 1093. The climate of the group is
very healthy, the temperature never coing to extremes though terribe storms sometimes bereit over
the value it in the poloriesph native women are treating the economist and extracting the hemels



TRAYS OF SHELLED COCONUTS READY FOR THE DRYING PROCESS After the kernels have been extracted from the nutst if ey are placed on trays mounted on trucks running on light lines to be transported to the drying round. To protect the coppa from any most time at high time trays are moved into thatched sheds constructed of rough poles and matting made from pain lacess. On North Lecting island there is a very valuable deposit of phosphates

INDIAN OCEAN 2230

feet in height, vary from deep brown to black in skin colour and have short, They are exceedingly frizzy hair. primitive, carrying on no cultivation, possessing no domestic animals and knowledge of having no Curiously enough no pygmies occur in the Nicobars, the inhabitants of which seem to be of Malay type, with a considerable intermixture of Burmese and Siamese stocks. They are advanced than the Andamanese and carry on a few simple industries, such as the making of pottery.

Socotra is a mountainous island with a generally dry climate, though it gets monsoon rains in July and December. It is definitely African and not oceanic in character; thus the coconut palm is absent, dates form almost the only crop, and the Arab inhabitants keep large flocks of cattle, sheep and goats, and use the camel as a transport animal. The hill slopes bear aloes, dragon's blood tree (Dracaena), frankincense and myrrh, as well as other aromatic and resin-producing plants, all of lesser importance now than in the earlier days of the world's history. The island is under British protection, for the position gives it some significance in connexion with the seaway to India.

The Cocos or Keeling islands, lying in about 12° S. latitude, some 700 miles from Java, are a British possession of little importance save for the historical fact that Darwin, who visited the area in the Beagle, based his theory of the origin of coral reefs on observations made here. They are typical "low" islands, the coconut, as usual, being the predominant plant. They were first

settled by a Captain Clunies-Ross, whose descendants—much intermarried with Malays—still inhabit the group, to the number of about 800. Good water is present, and there is a cable station. Like Christmas island the islands are attached to the settlement of Singapore.

Christmas island, which lies some 600 miles farther east, is remarkable for its rich deposits of phosphate of lime, which are extensively worked, chiefly with Chinese coolie labour. The phosphate works occupy practically the whole of the population of about 1,000, very little cultivation being carried on. . The island has a basis of volcanic rocks overlaid with limestone, and despite its small size rises to over 1,000 feet above sea-level. There is a rich flora which remains practically untouched. Fish Cove provides good anchorage and the working of the phosphate deposits is carried on by modern methods.

Very different in appearance from all the islands hitherto described is the desolate and uninhabited island of Kerguelen, which lies in about 50° S. latitude almost due west of Prince Edward island and the Crozet group. It is a French possession. The climate, though cold, cannot be described as severe, and there is relatively little difference between summer and winter. Lying as it does, however, in the region of the "Roaring Forties," the island is constantly wind-swept. It has been visited by more than one Antarctic expedition, and, since the surrounding seas are rich in whales and seals, it but no whaling vessels; attempt has been made to effect a permanent settlement upon it.

INDIAN OCEAN: GEOGRAPHICAL SUMMARY

Natural Divisions. Western islands, Mauritius, etc., relics of the ancient Gondwanaland. (Cf. India.) Andamans, Nicobars, a continuation of the Burmese fold mountains. "High" islands, volcanic, coral-fringed, such as Mauritius. "Low" islands, coral atolls, such as the Maldives.

Climate and Vegetation. Oceanic, tropical, with a rainy windward side to the

"high" islands in the track of the southeast trades of the South Indian Ocean. Palm trees, chiefly coconut.

Products. Cane-sugar and rum, copra, coir. Turtles. Phosphates. Spices, vanilla, cinnamon, cloves. Dates in Socotra.

Outlook. Much depends on the world

supply of sugar from beet and cane and the prices at which sugar is sold in the world's markets.

INDIA SOUTHERN

Crowded Panorama of Temple & Town

by Edmund Candler

Author of \\agabon I in \six etc

M WY varieties of climate and therefore of scenery are in cluded in southern India. A large part of it is tropical and luxurant India as one pictured it without knowing it is real ration of the vision of the country one conceived in childhood through books and trivellers tales a kind of gorgeous fairs land.

The north of India apart from the Humalayas is certainly not leantiful Unid and interesting it may be but it is very for from picturesque save sometimes in colouring and atmosphere The rivers burnt up sand beds of a Hinding whiteness or turbid yellow floods according to the season lend no refreshment to the eye. The tungle itself is little more than a colourless brown tangled undergrowth sapless stalk and brittle leaf To enter India for the first time by Calcutta or Bombay -as nine travellers out of ten doinvariably leads to disenchantment. The outlook from the trun during the long journes into the interior is most depressing a thousand iniles or more of flat featureless country much of it desert and even the sown land monotonous and unlovely

The Benghted Pres dency

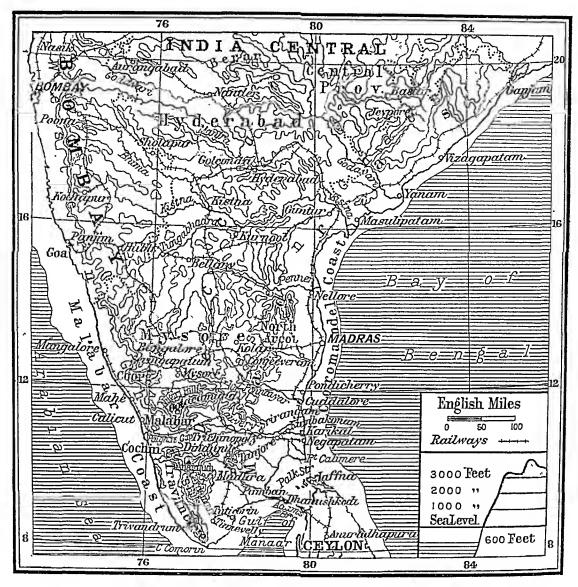
The Madras Presidency has its desolate tracts its rocky infertib. Decean its black cotton country and its sandy saline coast il belts as in Madura and Tinnevelly but these disfigurements are occasional exceptional rather than characteristic. If the degree of natural beauty in the plains of India could be analysed and estimated. I have no doubt that more of its e-sence would be found in an average square mile of Madras than in fifty elsewhere The south of India has never been so sisted and explored by travellers as the north. It is a little out of the least of the rapid cold weather visitor.

Though the most progressive and mediatally the richest province in India Madris is commonly regarded as a backwater. One he are it spoken of in the north as the boughted Presidency. That is to say it is self-contained and has been until quite Intelly detailed from the main line of communications. It has no frontice question and has been relatively immune from the serious political disturbances of other districts.

Where the Revenue Comes From

But Madras as the Madrasis will tell you finds the revenue and the north spends it The central government is naturally content with this order of things and interferes very little with the local administration. The benighted owes a great deal of its Presidency character individuality and homogeneity to its isolation. It has always been advanced and that is perhaps why it has suffered less than Bengal Bombay and the United Provinces from the speeding up of the wheel of political and social evolution

Before the East Coast rulway was completed the journey from Calentta to Madras involved a detour almost to Bombay and prisengers bound south from Madras to Ceylon had to face the drendful crossing from Tuticorin to Colombo But the presidency is more accessible now The Indian Ceylon rulway connexion with the Manaar peninsula Dhanushkodi and Puniban opened shortly before the Great War has brought Madras into the direct line of communication between Colombo and of communication between Colombo and



SOUTHERN INDIAN PLATEAU FROM MALABAR TO COROMANDEL

The railway journey is interrupted by one short break of 20 miles, where the ferry steamer skirts the chain of sand banks known as Adam's Bridge. This was Hanuman's Causeway, built by the Monkey god to afford a passage to Rama to retrieve his wife, Sita, abducted by Ravana. The exploit is celebrated in the Ramayana. The modern traveller who wishes to see the best of the country in a restricted time would be well advised to enter India by this legendary approach. is not only in scenery that southern India has a greater variety of appeal than the centre or the north.

In the Madras Presidency one is seldom out of sight of mountains.

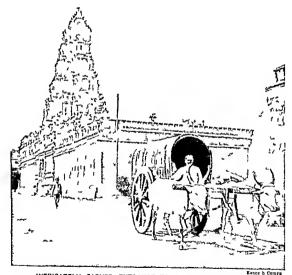
Southern India may be defined geographically as a tableland enclosed between two mountain walls, Western and Eastern Ghats, facing the Indian Ocean and the Bay of Bengal. The two ranges meet at an angle in the Nilgiris The Western Ghats extend the whole length of the presidency at a distance from the sea varying from miles, bold forest-clad to 100 peaks with smooth green summits. At one point in the range, to the north of Malabar, they form a veritable sea-A little south of this the chain is broken at the famous Palghat Gap, a depression of some 16 miles. amazing gateway through the barrier is the only break in its continuity.

Ghat at should be explained as an Indian word which among other meanings has come to designate steps

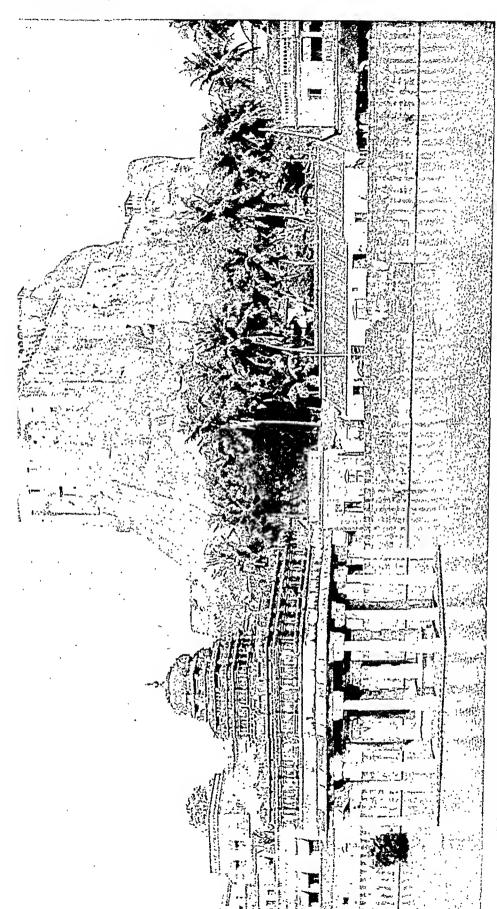
pass or approach in the same sines as the Spanish paperta in the Spanish sport of the Spanish paper of the Word came to be associated with the Whole range the event and the mind of the travell r long fixed on the particular points of the lattice that allowed him a passage to the interior from the cost

The western wall of the southern pennsula both in alutude and in vege-tation is far more spectacular than the eastern. It contains the finest forest preserves and the most inagnificent

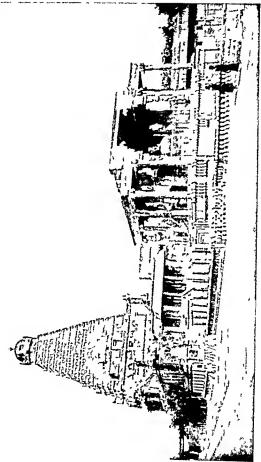
scenery in India outsile the Hunalayas In election it ranges from 2 500 feet to nearly 0 000 feet reaching its highest point in the Anamuda peak (\$ 837 feet) in the Tray incore State. The Western Ghats one their tropical luxuriance to the south west monsoon the Lastern Chats forming the corresponding mountam wall from, the Bay of Bongal are not so favoured. On the west the cunfull varies from too inches on the coast to .. 50 on the highest peaks of the On the east the heaviest annual fall is from 50 to 50 inches in the northernmost district. The peaks are not so bold the forest is nowhere so



INTRICATELY CARVED ENTRANCE TO A TEMPLE IN MYSORE Mysore the copy lad of he state of the same name is situated near the mouth of the Cauvery 100 miles south next of Dangalore. The city is but it in a valley, formed by two ridges and to the south east is the temple crowned Channand Hill 3,459 feet with a colossal recumbent figure of Nandi the sacred built of Siva. The manufactures include jewelry carpets cotton and site (coloss)



Ewing Galloway The town of Trichinopoly is situated south of the Cauvery river at the delta head and is a railway junction on the Madras Tuticorin line. TRICHINOPOLY WHICH RISES IN. THE OLD FORT HIGH ABOVE THE CITY AT granite, 273 feet high, crowned by the mandapam, or pavilion, in the centre.



This temple in the Vadra's Dreicherev is one of the most beautiful and effective Dravillan temple in the with of in its absence of the olders and the presenced with but little afteration. The others it operated over it sports that the first are replaced by the periods is decembed with the limiter of finance in the figure of the periods is decembed by a carrier of the relation of the periods of GREAT THE VIBANA OF GIGANTIG PYRAMIDAL TOWER OVER

dense or high; the system contains no summit of 6,000 feet, and is broken up into disjointed groups of hills receding farther from the coast towards the south of the peninsula. Between Madras and Pondicherry the easternmost spurs of the chain do not approach within 150 miles of the sea.

Hunting in a Hill Station

There are numbers of other ranges of hills in southern India, some isolated. others offshoots of the western and eastern systems, groups of which are known in various districts by local names, as the Maliahs at the extreme north of the Eastern Ghats and the Cardamum Hills at the extreme south of the western range, accurately described in the old eighteenth century maps as "high wavy mountains covered with dark, impenetrable forests." The Nilgiris, or Blue Mountains, in which the two chains meet in the south may be described as the garden of the presidency. Ootacamund, the summer headquarters of the Madras government, enjoys the enviable distinction among hill stations of standing on a plateau. Nowhere else in the hills of India can one hunt. It stands in an amphitheatre of the hills surrounded by an expanse of rolling grassy down of an average of 6,500 feet above sea-level. The nooks and folds of the plateau are known locally as "sholas," and are quite like England in their vegetation. With an annual rainfall of 67 inches and a mean annual temperature of 57° F. Ootacamuud is happy in an English climate and flora.

swampy inlet or marsh penetrating into the bed-rock of the hills, the harmony of grey, red and green, barren and fertile, "the desert and the sown," the metallic glitter and soft tropical sheen, each standing as the happy relief and complement of the other.

The climate, rivers and canals, the productiveness, and indirectly the history and civilization, of southern India have been influenced, one might say determined, by its mountain system. The eastern mountain wall, as we have seen, is more easily penetrable than the western, and leaves a much wider area between it and the coast.

Holy Rivers in Harness

The great rivers of the south flow from west to east, cut their way through the Eastern Ghats, and empty themselves into the Bay of Bengal. Both the Godavari and Kistna reach the cast coast after a course of between 800 and 900 miles from their sources in the western wall. The Cauvery rises in Coorg high up in the Western Ghats and flows right across the peninsula to its delta below Tanjore. All three rivers are of extraordinary sanctity in Hindu eyes. They and most of the shorter rivers of the south have been harnessed in the latter part of their courses by great masonry dams, and their waters distributed into a network of irrigation channels throughout the deltas.

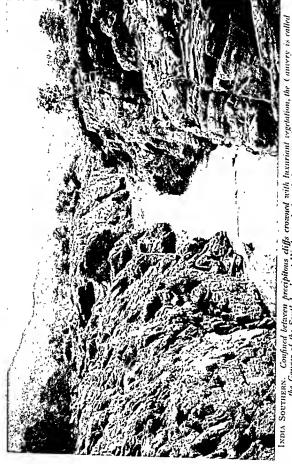
Six thousand dams had been thrown across the Madras rivers in 1908, and 4,900,000 acres brought under irrigation, as well as above a million acre of



INDIA SOUTHERN. The waterfalls at Wat-Halts in the Nilgiri Hills fret their way through the rocks where time has cracked them Photos in pages 2240 2244 Kenne b Confin

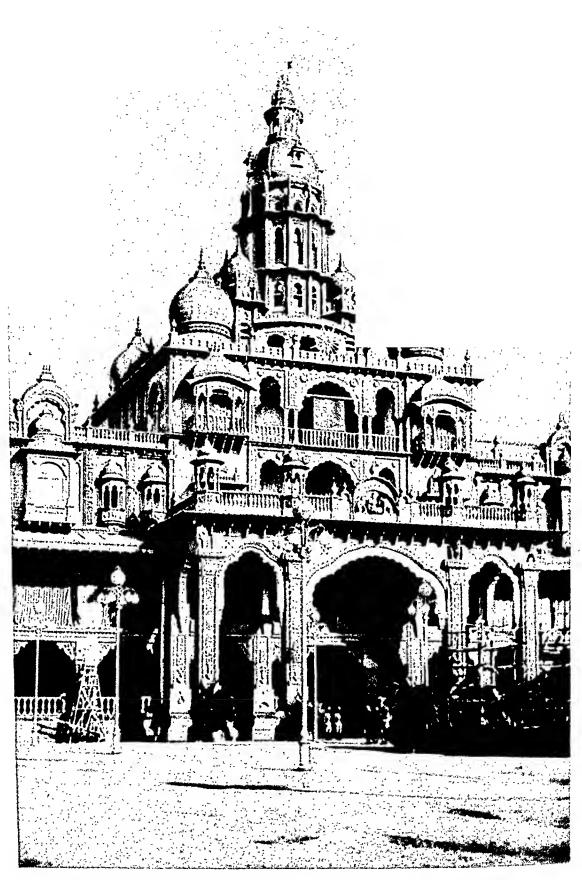


India Southern. Obtacamund, by the gently sloping banks of the lake, is a hill station set in the midst of the park-like Downs, with their grassy slopes and dales interspersed with woods and streams

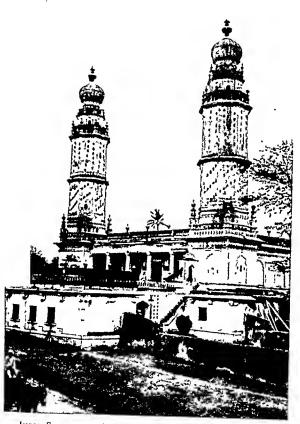


South by devout Hindus and abounds in scenes of ronnutic beauty

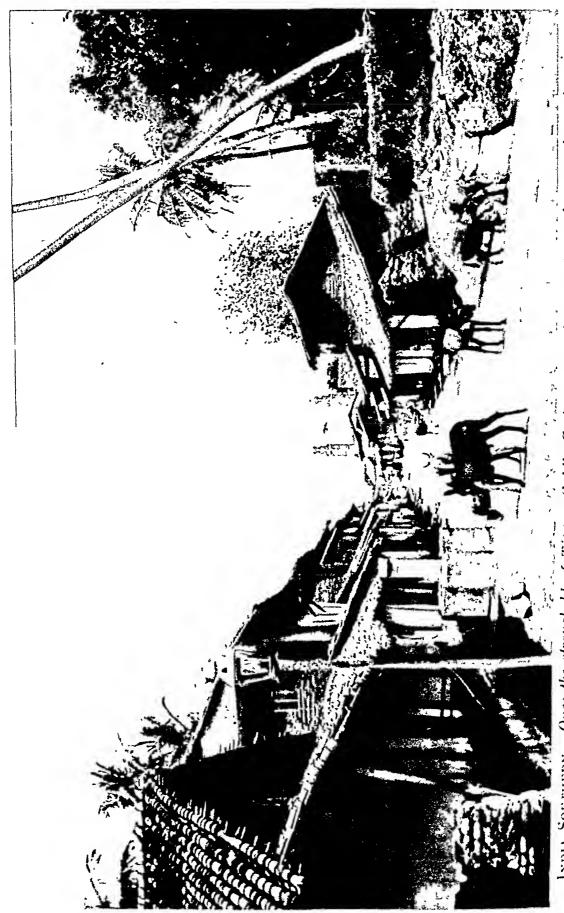
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India Southern. The Maharaja's Palace at Mysore, whose lofty golden cupola is seen from all points of the city, is garishly modern 2240



INDIA SOUTHERN At Seringapatan rives the High Mosque of Tippoo Salub, slain when the British stormed the fort in 1799 2241



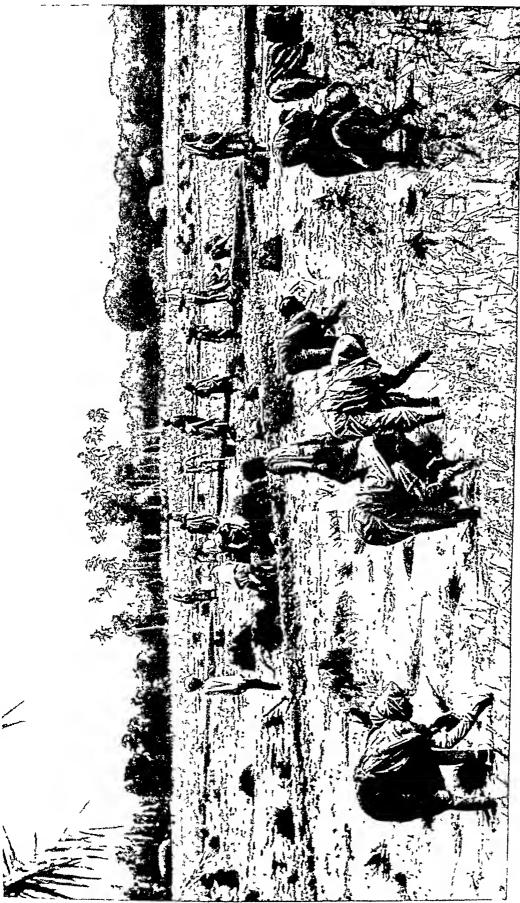
Tippoo Sahib, Seringapalam is now a town of mean, deserted streets INDLA SOUTHURN. Once the stronghold of Tippoo Sahib, Seringapatam is now a town of mean, deserted lined with irregularly built and dingy houses, white over all tower the twin minarets of the Mosque



This crude press, the power supplied by a soke of and the life rist, or peasant adderes to the methods of generations of British INDIA SOUTHERN



India Southern. The golden blaze of afternoon is tempered with sea salt and the frayed green feathers of palms on Malabar Coast 2244



In India it is possible to cultivate crops all the year round, for so long as they are watered they can defy the fierce heat of the hot summer months. Two crops of the ground in one year is not unusual; in north India a maize crop is not infrequently followed by a wheat crop, while in south India two and sometimes three rice crops are grown. The finer varieties of rice are grown from transplanted seedlings; and as rice usually requires to stand in water during part of its growth, the fields are levelled, embanked and accordingly flooded SEEDLINGS SEPARATELY THE PADDY-FIELDS OF SOUTH INDIA; PLANTING THE YOUNG RICE

sun bil ed rock and sand becomes as hot as a firmere blast. This wind is a true ser wind and blows from the east; the hot weather longstore wind of the Coroniandel coast blows from the south, most and sternin; it brings in role!

Seventy per cent of the population of southern India are eminged in agriculture, and a large part of the remaining 30 per cent are indirectly dependent on it Rice, millet and pulse are the stable food products Where the water supply is sufficient nothing but rice is rrown memories of the south are of an unmense vivid green expanse of rice fields bordered and islanded with palms, the coconut, the palmyra and, more picturesque than either, the graceful, tapeting areca nut palm. All three trees are of economic value Tamily have a proverb that the palmyra palm is useful in eighty different ways

Many Uses of the Palmyrs Palm

A large proportion of the population of the southern districts subsists by industries connected with it toddy-drawers form a considerable caste by themselves among the Telegus and Tamils and are as active as sourrels in "slinning up" the naked Toddy is the trimk of the tree fermented sap of the palin, it is obtained by making an incision in the bark and hanging a pot lickwito catch the sap as it exides, just as resin is collected from the pine trees in the Landes I rom the unfermented sap a coarse brown sugar is produced, and the fibre is the basis of the mat industry I have never been able to discover the seventy-seven other uses of the palm

The thought of the Madrisi at work always calls to my mind a picture of the paddy fields, and the ryot ruked above the lons drenched to the skin and up to his knees in mind, often with a boat-shaped imbrella on his back, but in a state of complete felicity. For here the blegging rains do not fail. In the parched and and Deccan it is another matter, and the cultivator it is another matter, and the cultivator.

with his primitive agricultural implements and ill nourished and insufficient stock scrapes a large subsistence from the soil only by the most ardnous application Away from the favoured rain fed or deltaic areas cultivation is made possible by arrigation from wells and tanks. The tank is an artificial lake, and it has often all the lanuty of a natural one According to official statistics there are 75,000 tanks in Madras and Mysore but these cannot include the thousands of reservoirs which one sees whenever there is water to be tapped and which are sometimes no bigger than the village pond

Sheets of Lacrie Water

The scenery of southern India owes much of its benuty to the tank Imagine a great expanse of water covered with purl, and purple lotus brunted by mmunicrable aquatic lowl and encompresed by wide stretches of swimpy ground frequented by snux. In the background rise grunt and splintered hills a chaos of rose-coloured loans and rock that besels off into the lumon green of the plan, while behind them tower the thickly forested ranges of the Eastern Ghats that extend for west into the Central Provinces Above the lake sour grey gulls and great fish engles with brown plumage and white heads, and if it is near sunset legions of gray homing puddy birds pass overhead to the trimrind trees by the embrinkment and burden their boughs with a weight as it were of snow

Intenious treiestion Welle

But these lakes, or tranks, become rarer and smaller as one recedes from the coast. Cultivation is sparse and depends on wells. The Persian well with its putent bullocks wilking round in a circle, or up and down an eirthen ramp, is a familiar sight all over India, the pueota, a sort of seesaw with a bucket attracked, suspended over the well and set in motion by the ryots walking from one end to the other of

the tilting beam, belongs more peculiarly to Madras. In the drier districts of the interior not more than 2 per cent. of the total area is irrigated. Such is Bellary with its vast expanses of treeless, dreary black cotton soil—the cotton, happily, thrives without irrigation; and such, or only slightly more favoured, is the whole of the granitic calcareous region of the Deccan, or the southern central tableland, undulating uplands of red, or grey, or brown soil, broken by long ridges of equally barren and almost treeless hills.

Country of Stone-Strewn Hills

It is a picturesque country owing to the colour and chaotic confusion of the vast masses of stone split into enormous boulders which cling to the parent stock, or lie tossed about at the foot of the hills in fantastic disorder. It extends for hundreds of miles into Bombay and the Central Provinces.

Cotton and various oil seeds and sugar-cane are the most important industrial crops of the south. In the Madras Presidency they take up about 15 per, cent. of the cultivated area. Tobacco is grown with well irrigation. The famous Trichinopoly cigars are made of leaf imported from Dindigul in the Madura district. But of late years Madras and Dindigul, where there is now a local factory, have quickened competition by the manufacture of cigars wrapped with the milder leaf grown in Java and Sumatra.

Coffee and Tea Plantations

Fortunes are no longer made in coffee. Leaf disease and the borer insect have spread havoc in the plantations, and the competition of the overstocked Brazil markets have hit the planters hard. Still, there is a livelihood in coffee-planting, and it is a pleasant life whether in Coorg or Mysore or the Nilgiris. Tea cultivation has increased with the decline of coffee; the largest and most compact tea districts are in Travancore. The tea and coffee estates are almost entirely in the hands of Europeans.

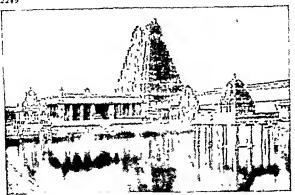
The planter is enviable in that his work lies in the hills, where in addition to the advantages of climate and scenery he may enjoy extraordinarily good sport.

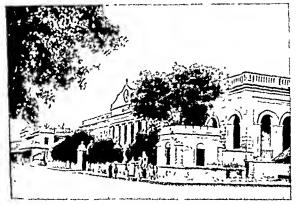
With the exception of the Nepal Terai the forest-clad hills of southern India and the jungle tracts at their foot afford the best hunting in the peninsula. Elephants, which are numerous, are preserved. In Malabar they are caught in pits by the forest department; in other districts they are driven into keddahs and, when caught, trained for transport, timber-dragging and ceremonial processions in the temples and at the courts of rajas. Tiger, bison, bear, sambhur and other kinds of deer are found in most districts where there is thick jungle; and the "black buck" and ravine deer in the plains to the southernmost limits of the Deccan.

Rare Beasts of Hill and Jungle

The tiger, though abundant in Travancore and many other districts, is not so ubiquitous as it was, and one hears no longer, as in the old days, of it being shot in the neighbourhood of the Club. Ootacamund Among rarer animals are the Nilgiri ibex, only found on these hills, and the hunting leopard, or cheetah, believed to be descended from tame ones which belonged to Tippoo They are easily tamed and trained to hunt antelope. The buffalo is almost extinct and is only found in the jungles of the Jeypore Agency.

In spite of the legendary discovery of the Koh-i-Nur and the Pitt (or Royal) diamond in the Madras Presidency the diamond bearing vein seems to be exhausted. The richest gold-fields in India are in the Kolar district of Mysore. In the Madras Presidency, save in a single shaft sunk in North Arcot adjoining the Kolar gold-fields Mysore State, gold-mining operations have not met with success; nor have the iron or coal deposits proved commercially profitable. Manganese is the chief mineral export of the south. Immense quantities of ore are obtainable in the Vizagapatam district and





COLONIAL COLLEGE IN THE FRENCH TOWN OF PONDICHERY

Lon lichery lettle clief of the I reach well-ments in India and the capital, I on lich ery, is the centre of a indictration. The i was fulfill in the aparts 1 a causal, one pertion is called it e valle fill anche and the other it is valle. Source, the former with a 1 stope an appearance drawed from its tree lined bouleward. There are the coutton mills in the town and of sech are the chief export.

Mysore, and there has been a rapid development of mining and quarrying during the last few years.

But the most profitable mineral product of sonthern India is salt, the manufacture and sale of which is a government monopoly and forms the most considerable source of income after the land assessment. The salt pans, in which the salt is evaporated from sea water, are distributed along the margin of the east coast.

Fish for Manure and Cattle-food

Saltpetre is manufactured under licence from the salt department, which also supplies salt to the fish-curers and is in control of the industry, which is of growing importance. The fish salted for the market is mostly for native consumption. The exports are few—pearls, not a very thriving or regular industry, and such picturesque items as sharks' fins and trepangs, or sea-cucumber (bêche-de-mer), which are shipped to China and the Straits Settlements. The sacred conch shells of the Hindu temples, more often heard than seen by the white man in India, are gathered by divers from the sand of the sea bottom off the pearl banks of Tuticorin. Fish-meal, which is favoured by cattle-breeders and poultry-farmers, is a new industry. It is prepared at Tanur. Sardines are sold both for food and manure.

Riding the Surf off Coromandel

On the west coast in the fishing season—not in the monsoon, that is to say- one may see fleets of outrigged sailing boats, most of them from Bombay. On the east coast the commonest craft is the curious catamaran, a primitive contraption of two logs lashed together. The catamaran is uncapsizable in the sense that it does not matter if it capsizes. The boatman rides his craft through the surf as a jockey a steeplechaser over country; boat and man often part company, then one sees two black dots in the white breakers instead of one. But they soon join; in a moment the

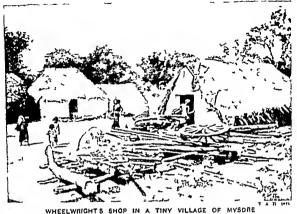
navigator, who is as much at home in the waves as a porpoise, is on top again and ready for another fall. No one will deny hardiness to "the soft southerner" who has seen a Madrasi fisherman navigate a catamaran.

The mountain scenery of the Malabar coast is a relief to the eve after the monotonous level sands and rice-fields of the Coromandel. The east coast, since it was the centre of the earliest civilizations, is more interesting for its human and historic associations and for its prodigies of architecture, the colossal Stone Bull of Tanjore, for instance, or Tirumala Naik's palace at Madura, or the temple of Rameswaram with its immense corridors, 4,000 feet in length, their flat roofs uplied by square pillars with the heads of grinning monsters for brackets, the holiest place in India after Benares and Puri. But it is in the temples of Tanjore, Srirangam and Madura that one finds the most perfect of the Dravidian style examples of architecture.

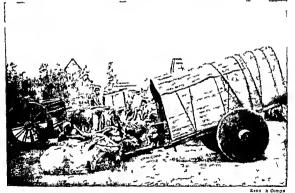
Immense Dravidian Temples

These shrines are immensely pressive by virtue of their and originality and the complicated grotesqueness of their elaborate ornamentation, though a little monotonous and fatiguing to the spirit for the same Their most distinctive features reason. are the gopurams, or great gateways surmounted by a huge storeyed structure with sides sloping to a narrow ridge, pyramid-wise. These great towered porticoes form the entrances to the highwalled quadrangles, and are repeated in the walls of each enclosure, diminishing in size as one approaches the innermost shrine. Thus the outer wall of the temple of Vishnu at Srirangam, a few miles from Trichinopoly, is 2,475 by 2,880 feet and 40 feet high.

The holy of holies is the smallest and least ornamented feature of the shrine. At Madura in the court round the central enclosure is the famous Hall of a Thousand Pillars, granite monoliths 18 feet high. The real temple lies



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WELL EARNED REST DURING THE SCORGHING HEAT AT MID DAY From Marcl to May there is a period of continuo \(\) increase in temperature it roughout Ind a during which temperatures exceeding too 1 occur in the Decran While this period of intense heat tasts Luro peans and nail es a like seek sheller from the sun until the comparati e cooless of the even against an individual and the second sheller is the sun that the sun th



Called the Blue Mountains because of the haze that overhangs the summits when seen from the plains, the Nilgiri Hills, with their open grassy slopes separated by forested glades, are a hot-weather resort for Europeans with many sanatoria such as Coonoor and Ootacamund. Coffee cultivation was introduced in the forested glades, are a hot-weather resort for Europeans with many sanatoria such inneteenth century, and the Ochterlony, valley and Wynood tableland, which were once entirely forest-clad, are now studded with coffee and tea plantations, the first of the Eastern and Western Ghats. while cinchoun, jalop and ipecacuanha are grown upon numerous estates. The hills are at the junction of the Eastern and Western Ghats BEAUTIFUL VALLEY OF THE NILGIRI HILLS NEAR COONOOR IN THE MADRAS PRESIDENGY

The penetralia of Madura within Sprangam and other Hindu shrines are closed to Europeans, indeed the holy of holies can only be entered by the officiating Brahmans, but one is allowed to approach near enough to catch a glimpse of the dim twinkling lights of the altar, which are the more mysterious for the shadowy darkness of the vast corridors that enshroud them The jewels of Srirangam and other temples are sometimes exhibited for a fee They are of fabulous value, but being uncut they are lustreless and ineffective. The Tanjore shrine, which is believed to date from the sixteenth century, is the oldest temple of the south. Very few of the others can vie in antiquity with English cathedrals Most of them date from the sixteenth or seventeenth century, though there is no doubt that earlier temples have stood on their sites from time imme morial, parts of which may still exist in the superimposed structure

Madras's Artificial Harbour

The traveller in the south of India often limits his itinerary to the temples of the Coromandel coast and misses the fascination of Malabar Of the scenery. chimate and fertility of the west coast we have spoken, and oddly enough the superiority in natural advantages of this favoured region extends to the sea-In its fisheries the Coromandel coast can not compete with Malabar The output of the west exceeds that of the east by nearly three to one As regards anchorage there is nothing to choose between them Neither possesses a real port. It is an astonishing fact that the Madras Presidency in the whole length of its I 700 miles of coast can not boast of a single natural harbour which will admit ocean going ships Madras alone through which half the sea borne trade of the south passes, possesses an artificial harbour. This consists of two masonry breakwaters converging to a narrow entrance of 500 feet At all the other ports on the coast ships have to he up in open roadsteads two or three

miles out at sea and discharge their cargo into light bouts capable of negotiating the surf. On the west coast during the ironsoon maritime trade is often entirely suspended. Many of the instoric rotekteads on the cast coast have been, or are becoming, silted up owing to the copious discharge of alluming from the estuaries

Coast and Lagoons of Travancore

The first belt of seahoard on the west coast stretching north 174 miles from Cape Comoran hes in the Travancore state which is bounded on the east by the Western Ghats Travancore is the largest of the native states in direct political relations with the Madras concriment territories held by their rulers under treaties made with the Last India Company generally as a reward for fidelity or military service. or through an arrangement by which protection was afforded against aggression in return for a subsidy geographical change as one turns the corner of Cape Comorin from the and district of Tinnevelly is most marked

Travancore has been the theme of many eulogies and is generally described as the most fertile and picturesque area in southern India. A gauge of its fertility is the density of its population, 416 to the square mile, and 94 per cent of these villagers. A peculiar feature of the coast is the chun of backwaters or lagoons separated from the sea by a bar of level sand from seven miles to about half a mile in width. These with their connecting canals form a water communication of 200 miles navigable for flat bottomed beats.

Maharaja's Weight in Gold

Thavancore has its own currency minted in the state mint at Trivandrum One of the most picturesque ceremonies observed in native states is the tulabharum at Trivandrum when the maharari is weighed in the scale against gold come which are minted for the purpose and distributed among the Brahmans

Wedged in between Travancore and the Malabar district is the native state of Cochin, the second in importance of the five little principalities attached to the Madras government. In its physical aspects it resembles the surrounding districts; one reaches it by the same canals and backwaters, an unbroken avenue of mile after mile of coconut and areca palm.

Tiny, Favoured State of Coorg

The minute and hilly district of Coorg, nestling between Mysore and the Western Ghats, is remarkable in that it is ranked as a fully and separately constituted province. Provinces in India may exceed in area the territories of European Powers. Madras, for instance, with its 143,330 square miles, is 22,000 square miles larger than the British Isles, including Ireland, and larger than Italy with all its islands. Hyderabad state is more than two and a half times larger than Ireland. Coorg is barely 1,600 square miles in area. But for its excessively heavy monsoon, it is one of the most favoured spots in India. It is a highland country of exceeding beauty inhabited by a race of mysterious derivation, who have been likened by their British admirers —and they are many—to Highlanders.

Hues of the Middle Ages

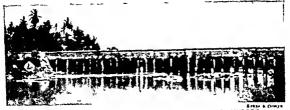
Mysore, often spoken of as "the Model State" by reason of its prosperity and excellent administration, divides itself geographically into two distinct zones of mountain and plain. In each zone its physical features are a repetition of the surrounding British districts and need no independent description. The British resident of Mysore has official relations with the government of India. Travellers who wish to see the India of the past should make a point of visiting these native principalities, where the atmosphere is still medieval. Hyderabad, actually in India Central, is the best example; at the festival of the Moharram three hundred elephants and two hundred camels,

caparisoned in scarlet, and the state army, 25,000 horse and foot with the Arab irregulars—romantically irregular—file past the nizam, preceded by standards and music. But the native states of the south are scarcely less interesting.

Mysore, happier in natural scenery, is not so picturesquely medieval. The maharaja's palace has been described by a competent observer as "the most painfully inartistic building in the world." "In that edifice stained-glass windows and macaw-hued cast-iron columns are engaged in a polychromatic struggle of so frightful a character, that the eye turns almost with relief towards the heavily massed gilding. That, however, is as the sun in its mid-day power." Of such are the interiors of most maharajas' palaces from Kashmir to Travancore. But we must not forget the Mysore throne of figwood overlaid with ivory and silver and gold, engraved with the Hindu pantheon. Legend has it that it was originally the throne of the Pandus and that it has been preserved from the dawn of time.

Small and Scattered French Posts

All the French possessions in India excepting the four square miles of Chandernagore (that is to say, Pondicherry, Karikal, Yanam and Mahé) are located in the Madras Presidency. Pondicherry (115 square miles), the headquarters of the governor of French India, comprises more than half the total area. The other small, scattered settlements, to quote an eminent French traveller, form merely "a modest and honorific legacy of the magnificent heritage of Dupleix, Bussy, Mathé de la Bourdonnais and Lally-Tollendal," and their economic importance is almost nil. "If in each of these settlements," to quote the same traveller, "you count up the administrator, the druggist, the missionary, and two or three good sisters, you will obtain the total of the six or seven persons of our nationality." A most practical project was raised a short time ago by M. Anton Bonhoure, an ex-governor, for an exchange of



PERIAPATAM BRIDGE BETWEEN SERINGAPATAM AND MYSORE Seringapatam histoath on anis as litute Counterwiver is semilien but seas (Myseer This substantial) constructed believe on at one strict is the Periapatan testing of the Suffern Indian ralway while connects the is and with the with lank of the river. He converges one of the Ingressistents would have been allowed by the content of the content of the surface of the content of

hankal Janam Mahé and Chanderra gore in return for an enlarged Pondi cherry. This excellent scheme of central sation would have given the Lenda in India one port and one radway system instead of the disapited enclaves which have always been a cause of disagreement and lituation. But M Bonhoure's plan was lowled down in the Chanum is in the Lenda Chamber who recarded it as a national laters if

Official statistics enable one to speak of the population of the south and its di tribution without too finciful genera lisations Roughly go per cent of the people live in villages and to per cent in towns Neither in Madras nor anywhere else in India does one see isolated houses. The village is the unit and 600 is the average village popula One hears talk of the spread of civilization and progress as an incentive to migration from the villages to towns but happily the census statistics give little appreciable evidence of this tendency The Madrasi obedient to the call of the land is essentially an agriculturist and there is no danger of his becoming industrialised

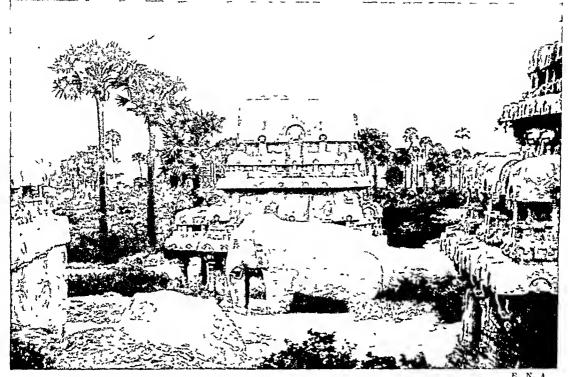
In the whole of southern India there are only four cities with a population exceeding 100 000. These are Viders which forms the subject of a separate chapter Bangalore. But and Trich nopoly Bangalore is the seat of the government of the Mysore state and contains the winter residence of the

The town is divided into maharya two main quarters the native town and the civil and military station under the control of the British resident cantonment which is almost surrounded by tanks parks and gardens is the largest in southern findin and very attractive on account of its situation and charate. Regiments think them whes booky to be quartered there Bangalore will have but a faint impression on the traveller coming from Trichmopoly or Madura the ancient and holy cause of the south

Trichinopoli is famous for its rock which one ascends by a roofed passage to the sanctuary on the summit 27,1 feet above the street at its base From the erry perched temple one obtains a view over a vast expanse of country shrine of Sprangam is visible two miles away half lindden in dense groves of palms A mile and a half further east is the temple of Jambukeshwar or Siva. a smaller but more delicately elaborate shrine of the pure Dravidian type remarkable for its grotesquely orna mented stonework Trichinopoly is famous for many things from its cave temples of the seventh century to its crag perched pagodas only a century or two old It is imperishably associated with the name of Chie It is also lamous for its cheroots and colleges and its goldsmiths and silversmiths whose filigrer work is unequalled in the south But Miduri surpasses Trichinopoly in

holiness. It is the Tamil Benares. There is more to see in Madura than in any city in southern India. Of its temple we have spoken. Its secular buildings are equally imposing. There is the seventeenth century palace of Tirumala Naik—the hall of which is now used as a court of justice—remarkable for its vast colonnades. More remarkable is the Pudu Mandapam, known as Tirumala's Choultry, an oblong wall-less

trunk is 70 feet in girth, and its branches and aerial shoots cover a rough circle, in diameter about 100 yards. Even holy Madura has its industrial side, old and new. It is famous for its weavers whose fine cotton silk cloth is unmatched in Europe. Close by the quiet alleys inhabited by this ancient guild, and the fabricators of brass lizards, cobras and frogs, are the steam cotton-spinning mills which absorb and emit daily their



ANCIENT STONE TEMPLES NEAR MAHABALIPUR IN MADRAS

These weirdly carved monohithic temples, known as Raths, are the works of the Pallava kings and reputed to date from A.D. 650-700. The figure of the elephant, like the temples, is carved out of the solid rock, and behind it is the Rath of Nakula, carved after the model of a "chartya" or Buddhist chapel, with a porch supported by two pillars in front of a cell at the north end

structure, 333 feet long, its flat roof supported by four rows of columns of stone on which are sculptured figures of rearing horses and fabulous monsters. It is the grandest mandapam in India. In fact, everything in Madura is on the grand scale. The Teppakulam, or tank, with the island temple, is immense—a perfect square measuring 1,200 feet each way with parapeted granite walls beneath which runs a continuous paved gallery. On festivals the temple in the centre of the tank is lighted by 100,000 Near the tank is the historic banyan tree, also immense The main

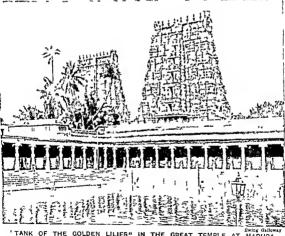
industrialised thousands. Happily the old style is in no danger from the new.

Occidentalism, it has been said, has taken a firmer hold of Madras than elsewhere. If this were true in more than a very partial sense, the charm of the people of the south would be lost. But fortunately it is only true in the sense that the classes which have received a Western education are more really educated and quicker in assimilating Western thought and customs than the college-bred intelligentsia of other parts of India. This superficial leavening is likely to give the casual traveller



SMALL TODA VILLAGE IN THE

Sprinkled over the vilger! It is are the small hamlets or imands of the Todas which usually consist of about its huts of an oval shape I will obbent! ammions laid of see together and fastened with retirant the hive-shaped roof belief this third. The Todas re-prevailets and each mand first its own simple dairy some little distance away from the dwelling buts



'TANK OF THE GOLDEN LILIES" IN THE GREAT TEMPLE AT

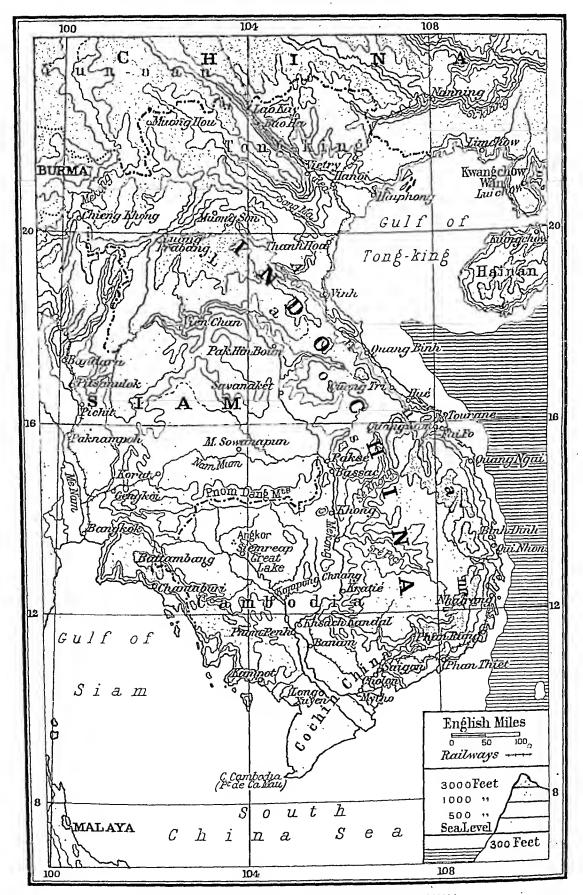
This vast temple forms a parallelogram about 847 feet by 729 feet, and is surrounded by 9 gopurams or Inis vast temple forms a parametegram about 47 rect by 739 rect, and as surrounded by 9 gopurams or gates the largest being 15 feet high. These ownste presents are meelfulshed with row upon row of casument of gods goddesses peacocks bulls elephants and an intreate mass of symbolical orna unmination all coloured and guided, the whole being turmounted by a stone triple. a false impression of the people as a whole. For the conservative forces of India are nowhere stronger than in the south. The Brahman of Madras is much more a Brahman than the Brahman of the north. The best place to study Brahmanism as it has existed intact with all its minutiae of ritual since the days of Manu is some backwater of "the benighted Presidency."

And side by side with the most ancient of existing civilizations—or perhaps we ought not to say "side by side," but "adjacent," for the Brahman still exacts the prescribed distance from "the untouchable"—there are 450 distinct communities included in the census report, representing every grade and condition between the primitive and evolved. And each of these communities is split up into sections, and again into sub-sections, whose members may not intermarry or even eat with one

another; for the high-caste Hindu is jealous of his inhibitions, and proud of the number of things which his religion does not permit him to do. There are sub-castes of Brahmans who may not eat mushrooms, but whose wives may, and doubtless sub-castes in which the husbands may eat mushrooms and the wives may not. At the other end of the scale there are jungle-folk and gypsies who will eat anything-lizards, snakes, crows and rats. The mere catalogue of the castes and sub-castes of the Hindus, and of the primitive tribes of animists, and their languages, laws and customs, would fill volumes. It is a fascinating study. But enough has been said to show that southern India is as inexhaustible in its diversity of appeal to the student of ethnology, folklore, philosophy and religion as it is to the naturalist, sportsman and lover of natural beauty.

INDIA SOUTHERN: GEOGRAPHICAL SUMMARY

INDO-CHINA France's Empire in the East by Robert Machray



FIVE-FOLD DIVISION OF FRENCH INDO-CHINA

them, in their age-old courses, quantities of silt and mud to form richly fertile deltas as they approach the sea

From south castern Tabet three lines of mountains can be discerned: that on the east runs through Januari, and is divided from the central ridge by the gorges of the Mckong, while on the west the gorges of the Salween constitute the farther boundary of Burnar. Smaller but very important rivers in this area are the Menun, which flows through Sium, and the Red river, or Hong-Kring of which Tong-king is the bisin

"monsoon" is derived from the Arabic term for "seasons" or "seasonal"

Looked at in this broad way, French Indo-China is not a unit chinatically, though it is so politically. It is the unitary strength of France, first exercised in the pennisula as long ago as 1757, and the genus of her administrators that have given to her this magnificent addition to her empire.

How magnificent an addition it is becomes evident from its incre size. In area it is inpwards of 250,000 square miles, or about a fifth as large again as



STRAIT THOROUGHFARE IN HAIPHONG, THE PORT OF TONG-KING SOURCE, 22 miles of the kin kam, a libituary of the Sourk ka, 22 miles from the 52. There is a fine harbo it with slip building parts and extensive repair shops. Cotton milling is the chief Industry buil there are also ceinent and isospitationes, distilleres and taineries. Herlink lighting and poxet waltons have been excelled.

The climate of Indo-China as a whole depends on altitude and varies from that of the relatively cool highlands to that of the tropical lowlands and deltas, with an interinediate range of temperature in the densely forested regions lying in between the northern and the southern parts of the country, Making due allowance for this variation, the clunate of the peninsula may be said to be regular. This is emphasised by another elimatie eliaraeteristic common to a large portion of Indo China in the prevalence of the monsoons, which regulate the seasons. Indeed, the word D 31

France, and its population is about It was no barren, un-20,000,000 inhabited or sparsely settled country when the French first set eyes on it; on the contrary, it had long been the scene of man's daily struggle for subsistence and the home of arts, erafts and industries for very many centuries. It was, in fact, highly civilized on the Oriental pattern, and the extent and grandeur of its ancient mins made manifest that earlier it had been the theatre in which powerful kingdoms and even empires had played a great part. Its boundaries suggest the racial.

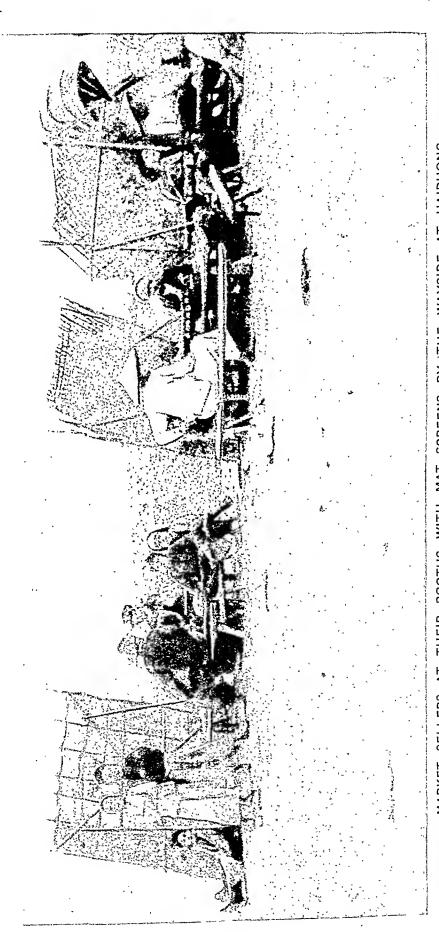


ONE OF THE LEAFY LANES IN THE SUBURBS ADJOINING HUE
Hanging up on both sides of the road are the long black tunics worn by the Annamese, who represent
four-fifths of the total population of Indo-China. Hué is surrounded by a cordon of villages situated
in the midst of flat, alluvial land, well watered by streams and canals and largely given up to the
cultivation of rice. The procession above is bearing wedding presents to the bride



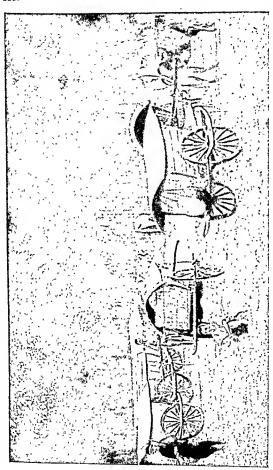
WILD WATER-BUFFALOES TAMED FOR THE PLOUGH

Water-buffaloes, which are found wild in Laos, have been domesticated in the agricultural districts, and the zebu bull is used for transport purposes. Large tracts of the upland country of Indo-China offer favourable conditions for stock-breeding, especially in the plateaux and certain provinces of Annam, but attempts to acclimatise Arab horses, and sheep from Aden, have been unsuccessful

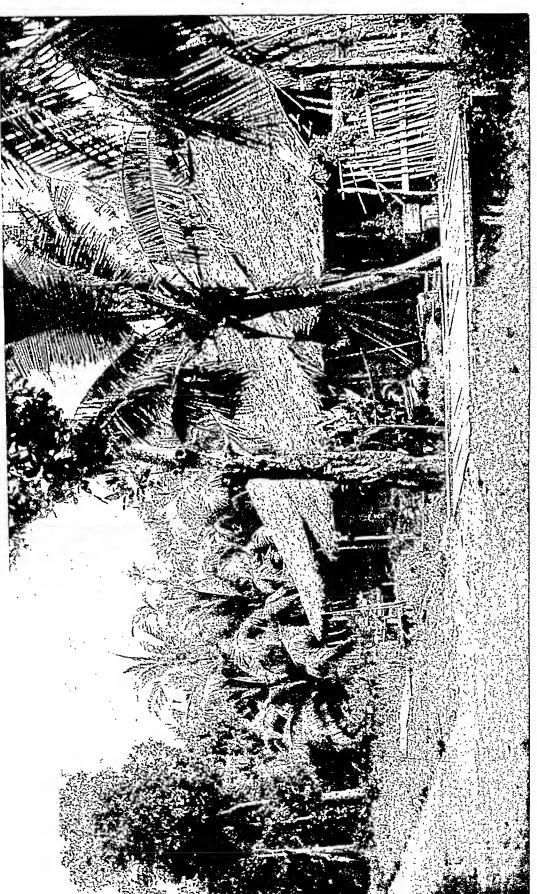


bitants with a brisk trade in cotton and silks. In Tong-king the principal towns are connected by carriage-roads, though in the mountainous districts rough tracks and bridle-paths are the only means of communication In Tong-king, which became a French protectorate in 1883-5, the Song-ka delta is a thickly-populated district with several towns and innumerable large villages. Besides Hanoï and its port Haiphong there is Nam-dinh, a town in the southern part of the delta on the railway from Hanoï to Hué and Tourane, which is a flourishing eity of about 50,000 inhabitants with a brisk trade in cotton and silks. In Tong-king the principal towns are connected by carriage-roads, though in the

INDO-CHINA



by become party meaning betigers of personanceal structures of great, errol expectes. Oxigation These earts have the body and roof constructed of tithidy-wowen grass, giving a littlemad lighters aver the rough mady, which are not at the best as the thick mud on the ubeels tectified, though the Highuay from Product te capital of Cambridia, to Sumpley is within the more trained. The newspress is tived and the third products of the country are eler, to laters, pepper, or "ee and tother canals are the chief obstacles to road making, but these are teing surmounted as well as pack-animals are largely used for transpert.



Coelin China mainly consists of a vast and rapidly-increasing alluvial plain formed by the deltas of the Mekong, the Don-nai, the Saigon and the Great and Little Vaice, all of which are connected by canals. Under the French much has been done to regularise and extend production by irrigation, and drainage schemes destined to combat droughts and floods. The land is divided up into very small holdings, and the natives cling to the methods and implements of their forefathers, but the value of modern scientific cultivation is being realized, especially as regards scrienture LOW-ROOFED NATIVE DWELLING EMBOWERED AMID FEATHERY PALMS IN COCHIN CHINA

ASTHAN UNIVERS

beings. For nature lind given them a soil—the edim at morth siliceousely carried down from the fur hybrids—which was emmently suital le for agriculture. More than that it was a soil that could never be exhausted for it was being continually renewed and deepened by the recurring floods.

This is constantly exemplified in the case of the Great Lake known as Bien Hor in Cumbodin which overflows into the surrounding in riches and build with each runs, season and refertibles the district. It is impossible to evaggerate the importance of this perpetual renewal of the soil.

And the primitive settlers it may be said found not only a rich soil but a climate on which they could nily as already indicated the climate of I rench Indo-China is much the saine as that of the rest of the peninsula—cool in the highlands and tropically hot and damp in the lowlands and delitation on the latest of the characteristic feature of which is the characteristic feature of which is the regular summer runs have their effect but there are some local differences.

Hot Summers and Typloons

Tong king lins an exceedingly liot summer with the thermometer ranging up to 100° l. by day and going not much lower by night but it lins a cool winter extending from October to May with the lins down occasionally to 50°

Coclun China and Cambodia are not so scorching in summer the temperature ranging up to about 85° and there are daily rains Their winter or dry serson extends from mid October to mid April with the glass up to 80° by day and down to 68° or so at night Annam has a less regular climate August and July are dry and very hot but heavy rains fall in September and the temperature decreases To those unaccustomed to hot moist tropical regions the climate of Indo China away from the highlands is apt to be very trying The typhoon, when it rages is more than trying to everybody But taken by and large Indo-China has а climate that

encourages the production of crops and of these crops the greatest of all Just as in the prairie provinces of Canada wheat is the ling of certals so is rice in all the hot moist tropical lands where it can be grown It is the chief export of the country and forms about 70 per cent of the total exports About 8 000 000 acres are devoted to its culture Cambodia and Coclini China having the largest acreage and Tong I me the next while Annun and Lao have a very much smaller acreage An immense quantity of the exported rice goes to Hong Kong and Cluna But the country has many other products some of which are exported including cotton sill pepper sugar connamon rubber tumber (teak from Laos) tobicco coffee and tea

Punio tat on of the Lister es

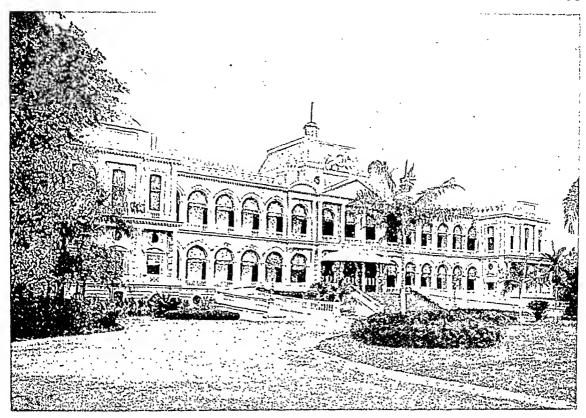
The total exports are worth about twenty four millions sterling a year and as the total imports come to about two millions less Indo-Clima has the great conomic advantage of possessing what is known as a trade balance. These statistics suggest how great an asset France has in this part of her embre.

But it is not products that alone tell the tale. As might be expected Indo China under French rule has developed new or increased old industries.

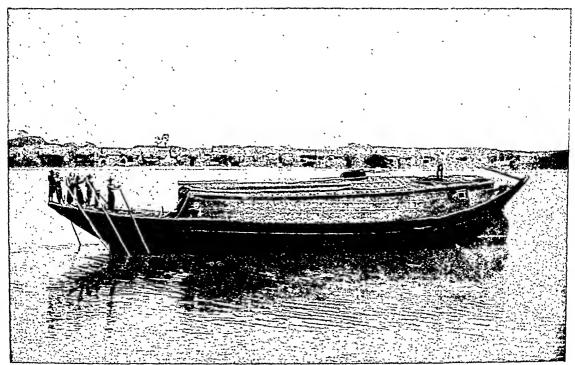
First among these are the fisheries Not only the surrounding seas but the rivers and takes abound in fish most of them suitable for sulting and smoking A distinguishing feature of Cambodia is the huge fish industry connected with the Great Lake or Bien Hoa Thousands of tons of fish are sent from this district into China annually

Abundant and Varied Minerals

Indo-Clum is rich in minerals such as hard and soft coal antimony tin iron zinc c pper wolfram gold and salt Minin is a growing industry most of the work being done by the natives and the wolf ing of many mines preceded the French occupation. But the I rench



SPLENDID AND IMPOSING PALACE OF THE GOVERNOR AT SAIGON Saigon is a beautiful modern town. Its wide and uniform streets, shaded by trees, and its lovely gardens, make it one of the finest towns in the East. It is connected by a railway and electric trams with Cholon, an important commercial city, and both these municipalities contain over 100,000 inhabitants and have rice mills, saw mills, soap factorics, breweries and tile and brick works



John Bushby

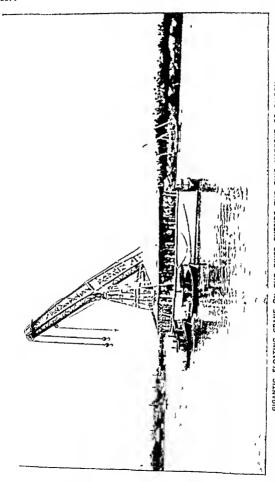
RICE BARGE FLOATING DOWN TO THE MARKETS AT SAIGON

Cochin China is very fertile, and two erops of rice, which occupies a quarter of the total area under cultivation, are gathered annually in certain specially-favoured districts. Rice is grown principally in the delta lands, whence it is shipped in barges along the canals to the mills at Saigon and Cholon. The river and sea fisherics are important industries and occupy a large population

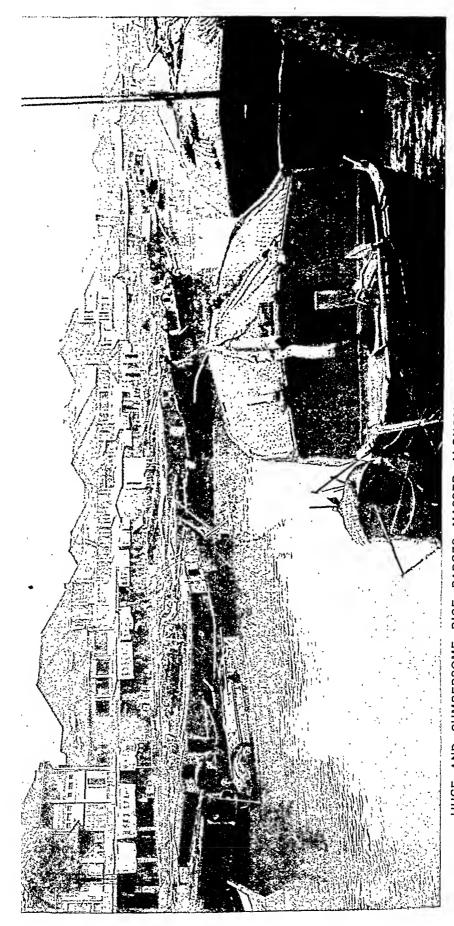


considerable importance, via this port, between Yun-nan and Hong-Kong The mountainous region of the north contains valuable mineral deposits, which include gold, silver, copper, tin and zine, and the forests abound in woods of great commercial value such as iron-wood, chony and sandal-wood. The lands of the delta are one vast rice-field, and, as a rule, yield two crops a year, nearly 1,000,000 tons being exported Haiphong, since it is the headquarters of the river steamboat service of Tong-king, is an important centre for local trade, while there is also a transit trade of

INDO CHINA



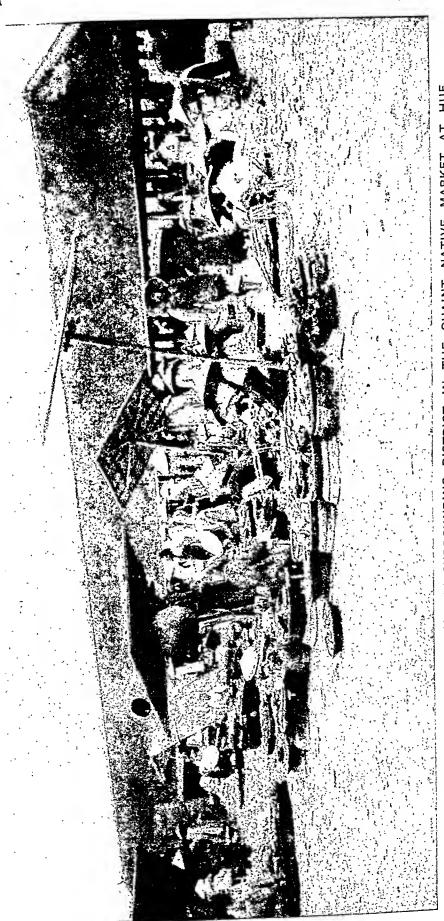
In the long costs has of Indo China there are numerous small harbours used by jushs and coststeller for the titre are eight two first class parts. Majbring, both in delta country situated somethateed from the epers of an all the parts with place the desk are that in race, free a very an all the latest The Salgen as a branch of the Don mal, which in turn is an aff mat of be Michang, and for a line delta with a second and the class of the class of the country are taked up by means of country and testing to facilities to facilities transport. HARBOUR



Saigon, the capital of Cochin China, is situated on the right bank of the Saigon about 40 miles from its mouth. It ranks beside Boulogne and Bordeaux in importance among French ports, and besides being the commercial centre of the colony it is the principal French military and naval base in the Far East. The spacious harbour is accessible to the largest steamers, and is equipped with ship-building yards and repair shops. Rice is the chief article of export, dried and salted fish, pepper and cotton being next in importance, and the imports include woven goods, machinery, wincs and spirits CUMBERSOME RICE BARGES MASSED ALONGSIDE THE QUAYS ON THE SAIGON RIVER



The town has a Tong king is the northern portion of French Indo Chira, the north is we mataboon and covered in airgan (we will be the set the celtar of Hong reach lave erected many (ne had frage, agglomeration of several villages 11



The town is the sent of the French resident-general, and the European connected with the citadel by an iron bridge. The population is about from its mouth in the China Sea, and is built on what is practically an island, the river flowing on three sides and a canal cutting off the fourth. The town is the seat of the French resident-general, equarter together with the houses of the upper classes on the right bank of the river are connected with the citadel by an iron bridge. The property of the right said industries are glass and ivory working. In the neighbourhood are the tombs of the rulers of old Annam she obtained by conquest in central Annam a century and a half are was nothing more than a mere foothold -a few nules of coast at Tourane and a small island in the immediate vicinity For a hundred years afterwards the French empire, in the Lar East as else where, remained small and unimportant. In 1850 it amounted to about 200 000 square miles in the whole would during the following fifty years there was a producious advance, for in 1900. notwithstanding the defeat of I rance by the Germans in 1870 and its farher stretchine reactions,

the southern Chiness took put, and in which the foreigners were not always successful though victorious in the end. France in 1863 forced a trenty on the ling of Cambodia that made his country a French protectorate in 1884 a trenty was made with the king or emperor of Annan which turned both Annan and Tong king into French protectorates.

Tong king laid been an Annamese size for sity, but the I rench did away with the vice rivality and its government is exercised by the resident general. The king of Annam has a



WAITING FOR COOLIES AT A WAYSIDE MALTING-PLACE IN ANNAM Privio 3 to the French occupation the reads were little better than tracks womentimes suitable for carts, but my coften only in 1 of 10 ere expension traffic. Many of the tracks have been converted into goal roads, some of those in the mere people) as distincts being destined to carry trainway lines. The rid randardiar road from Tong king into cochia China paves through all the important towns.

possessions lind grown to 4,000,000 square miles in area, and included nearly all "L'Indo-Chine," as it is to-day. The old Annamese empire which some centuries before hid succeeded in ousting Chinese rile, and which had consisted of Tong king and Cochin China in addition to Annam itself, was tottering to its fall when it was first attacked by the French

After obtaining the cession of Tourane, the French fixed their attention on Cochin Clima, which they served and eventually made a colony. This was the real beginning of the French domination. After numerous wars, in which some of

council of ministers, but the reaf power is wielded by another resident general Loos, which is composed of everal small states under native princes, became a protectorate in 1693 Six years previously Cambodia, Tong-king and Annam were formed into a customs union. Several rectifications of the frontier have taken place with Simm, but the change effected is not important.

The whole country is now administered by a governor-general, assisted by a secretary general, there is a superior council with a permanent commission of the council always in session. In the background, however, stands the French INDO-CHINA 2276

colonial office in Paris, to say nothing of the French foreign office, cease-lessly vigilant. As a colony Cochin China has a governor of its own, but all the four protectorates have as their head the high French official styled resident-general, who advises or rather directs the policies of the native princes and their subordinate mandarins. The seat of government is at Hanoï, some 60 miles inland from Haiphong, on the Gulf of Tong-king. Formerly the seat of government was at Saigon, about 40 miles up the river of the same name.

With its fine public and other buildings and its wide boulevards adorned with avenues of beautiful trees, Saigon remains in one's recollection as among the most attractive cities of the Far East. If much of its political importance has gone to Hanoï, it is still the capital of Cochin China and a very great port. A very powerful wireless station has been completed there which is in direct communication with the wireless station at Bordeaux.

Neither Hanoï nor Saigon is the largest city of Indo-China. That distinction belongs to Cholon, in Cochin China. Its population is over a quarter of a million, about one half being Chinese. Hanoï and Saigon have about 100,000 inhabitants apiece. The greater part of the former city consists of an agglomeration of native villages, but there are also numerous splendid

modern edifices, including the University of Indo-China, established in 1917. With railways into China and along the coast, as well as to Haiphong, it is a brisk trade centre.

Haiphong, with about 20,000 people, is a growing port, and the French portion of it is well laid out with spacious streets and boulevards. The chief city of Cambodia is Pnom Penh on the Mekong, 130 miles north-west of Saigon, having a population of 90,000. Here, too, the French have erected fine buildings and shaped out beautiful streets.

No doubt the most interesting place in all Indo-China is Angkor, the ancient capital of Cambodia, and situated near the Great Lake. It is now a mass of magnificent ruins covering an area of two square miles, and consists of what once were royal palaces and majestic temples, enclosed by walls 30 feet in height and pierced by five wrought gates. To the south, standing in a moated park, is the temple of Angkor Vat, a perfectly wonderful building, dedicated to Buddha, and the finest surviving example of the ancient art of the Khmers or people of Cambodia.

France holds all this great country with a garrison of less than 30,000 men, including native troops numbering 5,000, some of whom were on active service in the Great War. But the natives, whatever they were in the past, are certainly not warlike to-day.

INDO-CHINA: GEOGRAPHICAL SUMMARY

Natural Division. Part of the tangle of elevated ridges and sharply-incised valleys forming the plateaux of South-east Asia which extend from South China into Malaya; the southern extension of the ancient Angara-land. The deltaic river mouths and the alluvial plains of the coastal areas in the north and south comprise debris brought down through many centuries from the anciently higher interior plateaux. These lowlands are the really important section of the whole country.

Climate and Vegetation. In the south, Cochin China-Cambodia, tropical heat with small temperature variations and summer rains. (Cf. Ceylon.) In the north, Tong-king, hot summers, cool winters with summer rains. (Cf. South China,

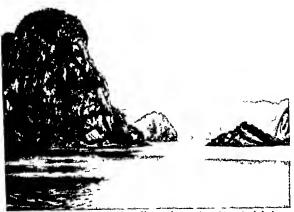
Florida.) In the middle, Annam, quite a different rainy season, October rains from the north-east trade winds. (Cf. the Coromandel coast of South India.) The heights are forested, the lowlands are jungles and swamps. (Cf. India Southern.)

mandel coast of South India.) The heights are forested, the lowlands are jungles and swamps. (Cf. India Southern.) Products. Rice (two-thirds of the exports). Teak, bamboo. Tobacco, coffee, tea, cotton, silk. (Cf. India Southern.) Cinnamon, pepper, sugar. (Cf. the Malay Archipelago.) Fish. Cement. Cotton and silk textiles.

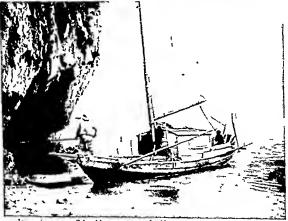
Communications. For native purposes, junks and sampans. (Cf. China.) For Europeans, railways and steam ships.

Outlook. As in southern India an alien

Outlook. As in southern India an alien organized government keeps the peace while the self-contained and self-centred natives prosper.

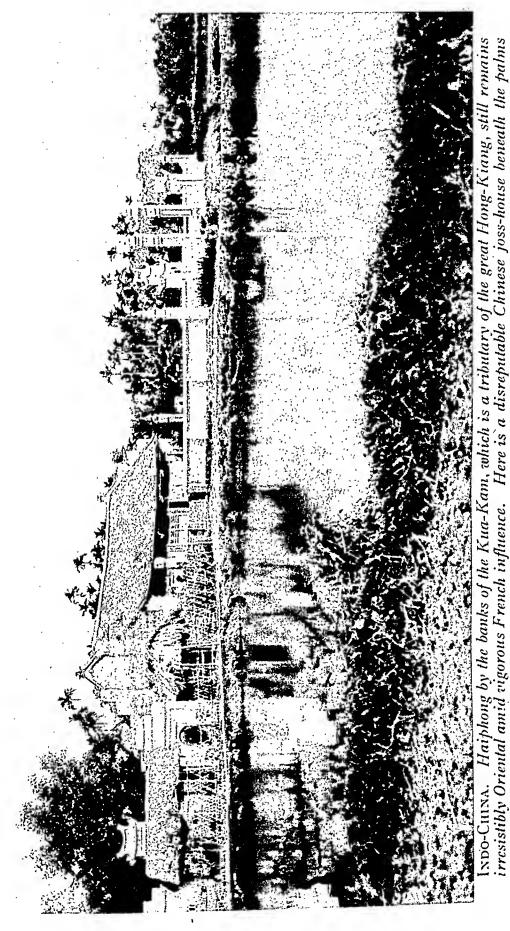


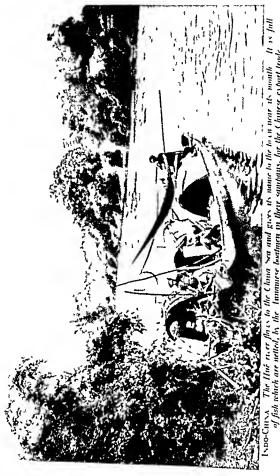
From Mon-Kay to the Hong-Kiang the north-east coast of Indo-China is sea bitten into inlets, as here in the Bay of Hong



INDO CHINA The blue waters of Hong, near Harphong, are a lovely crussing ground where a litter of islets helps to tame the breakers 2277

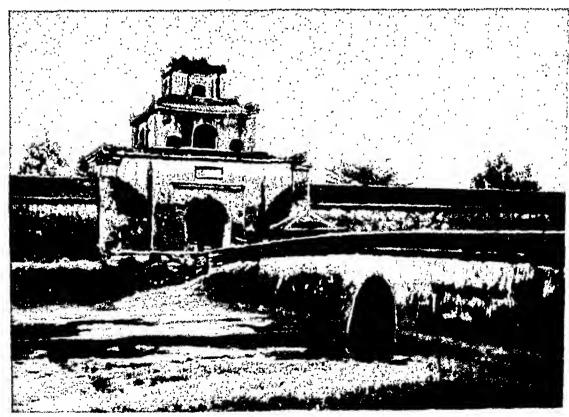
11.4







Capital of Annam, Hué is on the left bank of the river. On the other side is the citadel, once sacrosanct but now thrown open by the French



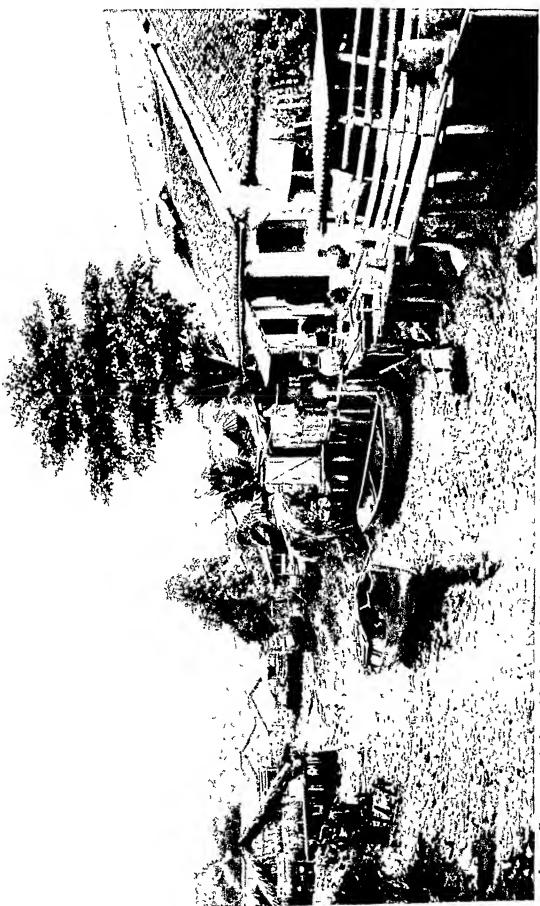
INDO-CHINA. Hue's citadel has the river on three sides and a canal defends the fourth. Near by are the tombs of the rulers of old Annam



Saigon, capital of Cochin-China, is a fine river port, but down by the unterside one may still see the pile houses of reed mats and thatch



INDO-CHINA. This drugon that ramps upon a painted screen in the likeness of some elemental bull guards an Annamese temple at Hué



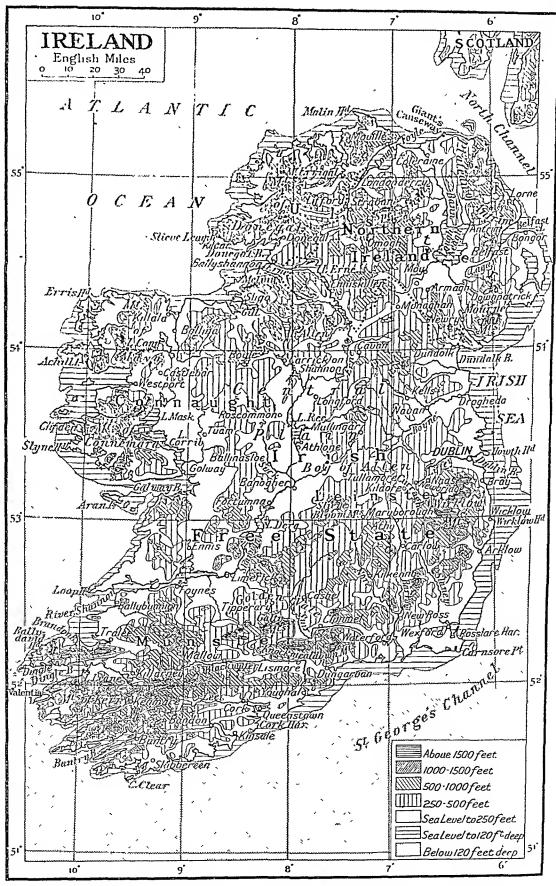
-It low tide the creeks that intersect the native quarter at Saigon present a spectacle of noisome mud stranded boats. The main stream empties itself into the China Sea forty miles away and stranded boats.





Angkor Vat, a vast Buddhist temple It is deserted now save for a few priests Beneath the foliage of the banyan tree rise the terraced pagodas of and a remnant of the great empire of Cambodia in the seventh century. INDO-CHINA.

Isle of Verdure Framed in Mountains by Robert Lynd



IRELAND WITH ITS RING OF HEIGHTS AND CENTRAL LOWLANDS

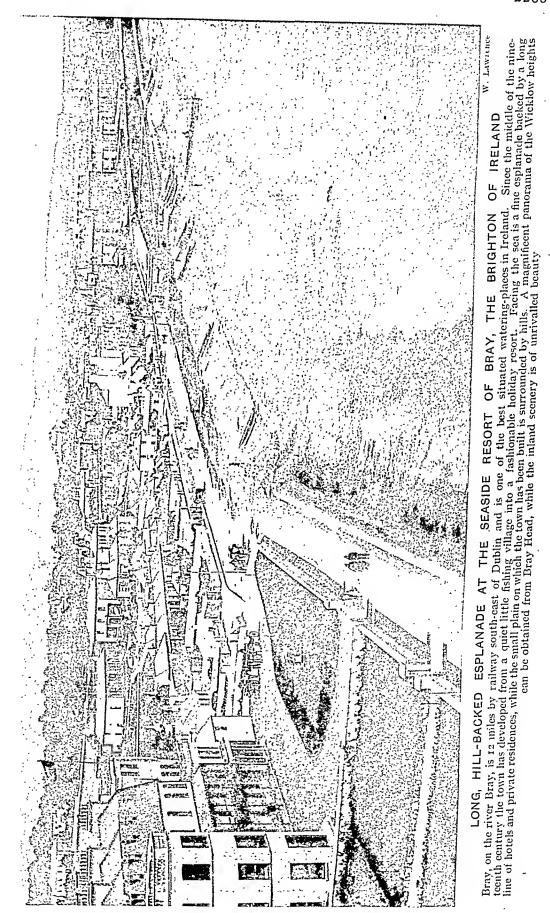
Britan for example was never extended to Ireland though Tacitus tells us that Agricola used to be in faviur of a conquest of Ireland on the ground that it would contribute greatly to bridle the stubborn spirit of the Britons, who in that case, would see with dasmy the Roman arms trumpliant, and every spark of liberty extinguished round their cost."

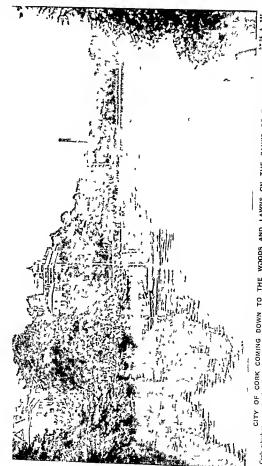
On the other hand the Irishman has in his vens the blood of conquerors who,

even if they invaded Britain nover made themselves complete masters of it where the Grels who mvaded Ireland came from is still a matter of dispute. Modern writers will not even allow them to have been Celts. Though speaking a Celtic language they are said like the Anglo-Savons to have been a branch of the great Nordic rice. I have be ind Professor Haddon at a meeting of the British Association of claring that there was far less Celtic blood in Ireland than

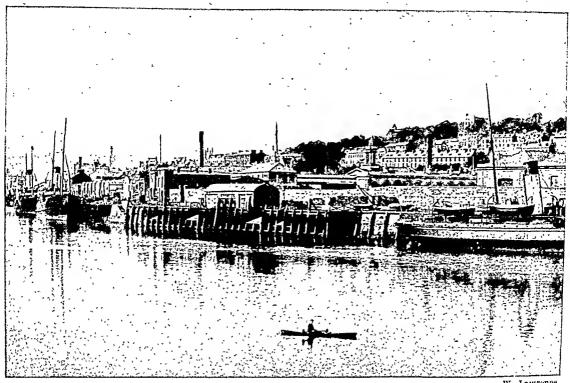


MASSED PILLARS OF THE PHENOMENAL GIANT'S CAUSEWAY
The Giant's Causeway is a promotiory of columnar basilt on the north costs of County, Antrim at
Aird Point. They's about 40 000 closely packed brestlike polygonal pullar srising to varied
beights mostly of beta agonome but in any with five or seven sides. This natural phenomenon
—50 regular and yet so diversified—is accrited to the cooling and crucking of a lava stream



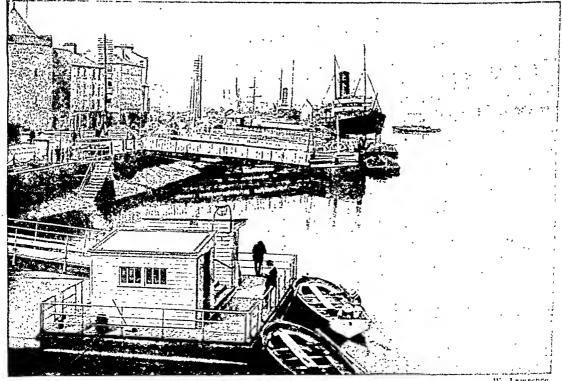


Cords which is a county of reely raid the cap raid county Cork, stand pardy on any land who the harbour within a period raid of the remers. The city's same individual forward in the reman cand would manufactories of tillners sing building, you hall a un county catable insents while there is a city of any produce. West of the two is it of land harden planted proments one unless the tetween two arms. I helpe a a fine claim planted proments one unless the retween two arms. I helpe a a fine the ON THE BANKS OF THE so ith east is the City Lark which I eliefte u ed is irrice co re Cork which is a county of itself and the crp til of county Cork.



W. Lawrence

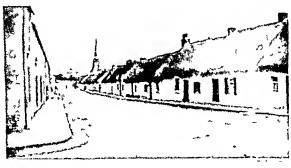
STEAMERS AT THEIR BERTHS ALONGSIDE THE QUAYS OF CORK CITY Occupying an island formed by two arms of the river Lee, and the rising ground surrounding and overlooking it, Cork is situated in miles above the river's entrance into Cork Harbour and holds an important place among the ports of Ireland. The river is navigable for a mile beyond the city and there are more than four miles of quays, accessible to vessels drawing 20 feet of water



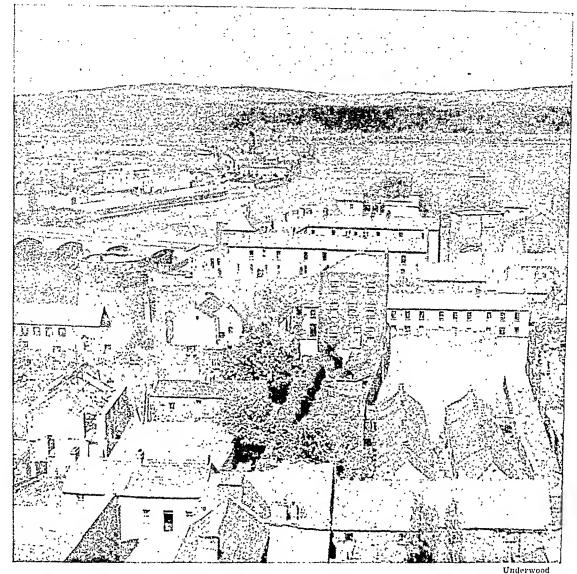
W. Lawrence

CROWDED RIVER-FRONT OF WATERFORD ON THE RIVER SUIR Waterford is situated 94 miles south-west of Dublin near the confluence of the Suir and Barrow. It is an important railway junction and port, having steamer connexion with Fishguard and Bristol. Portions of the city walls still remain, including the eleventh century Reginald's Tower. The industries include bacon-curing, flour-milling, ship-building and ironworking, and dairy produce is exported

2291 IRLLAND







LIMERICK CITY, PROSPEROUS RIVER PORT OF THE SHANNON Limerick, the capital of county Limerick, lies on both sides of the Shannon, 129 miles from Dublin by rail. As a port it enjoys considerable importance and owes its prosperity to its situation on the river at a point where it becomes navigable. Graving and floating docks and finely-built quays all add to its flourishing trade, while canals connect the city with the interior of Ireland

in Great Britain. If there is any Celtic blood in Ireland, we are told by some authorities that we must look for it in remote districts such as the western seaboard of Connaught, where the descendants of the race whom the Gaels conquered still survive. so-called dreamy Celt, it is said, is almost always really a dreamy Teuton. These views on the racial origin of the Irishman, however, are not universally accepted even now, and other anthorities insist that the dominant type of Irishman owes more of his qualities to the earlier " Mediterranean " invaders of his country than to the later

"Teutonic" conquerors, whether Gaelic or Viking or English.

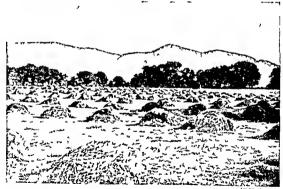
The Irishman inhabits a land which, like himself, runs to extremes—extremes of flatness in the great central plain, and extremes of mountainousness in some of the seaboard counties such as Donegal, Down, Wicklow and Kerry. In Ireland the mountains do not give the country a backbone, but a magnificent frame. In the west they rise above the sea like part of the European barrier raised against the fury of the Atlantic. Here cliff and mountain and rock stand along an irregular front—Europe's first line of

d ferce against the assults of the occur. There are no other elifs in the British 1stes to compare in gidds and howning eminence with Sheve League in Dongal and the great cliff of Achill

Irel and is also extreme in leaving the longest river in these islands—the Shannon-and the largest lake Lough Neigh The Shannon in the course of its 225 miles is a river that unites all the four movines of Ireland Risma m Liter at flows through Leaguer and Connucht and pours it all into the Atlantic in Muniter idler and less lard ned with shipping I fines than any great river in any civilized land There is an all but dereliet appearance about some of the rivers and harbours of the west of Ireland which may be attractive to lovers of remance but which brings home to the modern man more reutely than roofless church and linken tower a sen e of lass and run

If Iroland runs to extremes in river lake and mountain she is nobly moderate in at least one thing—her clunate. She is commonly supposed to be an excessivity wet country, but then are parts of Scotland that suppose her in the extent of the rainfall. She does not suffer either from the extreme cold of a hard I aglish summer. The difference between the temperature of the coldest and of the warmest month is \$7 I less in Ireland than it is in castern I agland. The Irish summer is a northern summer, the Irish warmer is a southern warter.

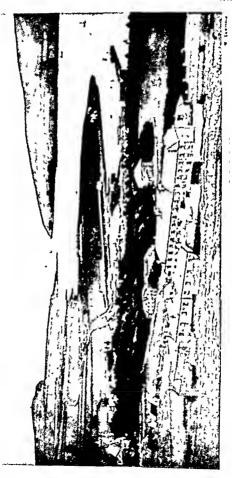
To leve the statement as it stands without qualification however would be to paint the larb character to only like colours. The west and south west sea winds that break on the Irish mountains, and the influence of the Gulf Stream may keep the thermometer at a reasonable level, but they also make Irishind as most a country as she is mild. It has been said that in Irishind as a whole some rain falls on three out of four days in the year. This persistent soft rain is good for seency, and produces that greenness in grass and left that in de every journalist during the

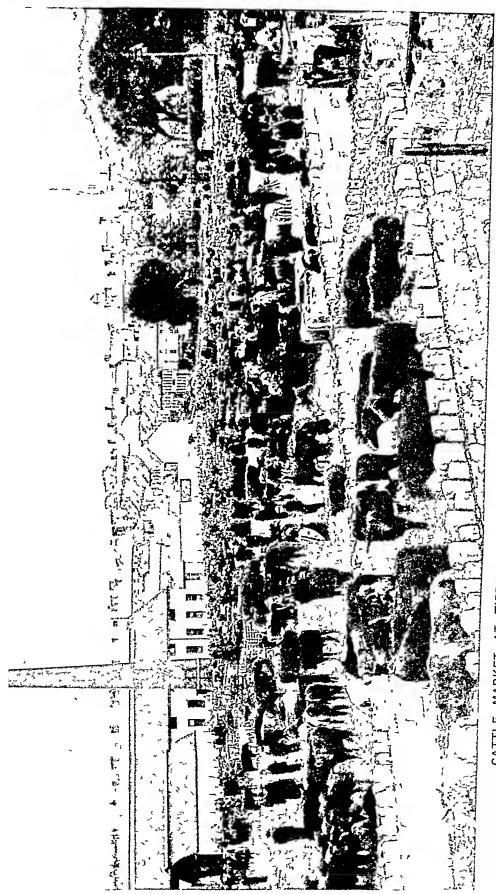


HARVESTING THE RICH HAYFIELDS OF THE KILLARNEY DISTRICT Tree quarters of Ireh 1s area are c librated and nearly two tile its of libit cultivated land are at deer grass. In the martitime on try of herry agric lurea mail feb grate the che fit in trice. Hay is green aupon me charable had near hillars eve and strict had see exquisite take on in ountain scenery last mode in the principal headquarters of withouts in south west Ireland.

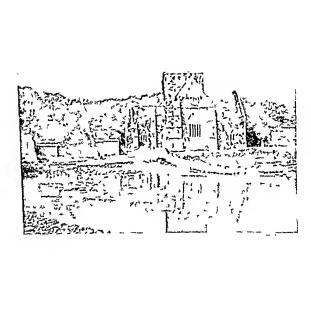


Of the lakes of Killarney, a chain of three lakes, Lower Lake or Lough Leane is the largest, being four miles long and covering some 5,000 acres. Its waters are connected with those of Middle or Muckross Lake, 680 acres, at Brickeen and also at the Meeting of the Waters, south of Dinish island; from this spot a narrow channel, called the Long Range, connects the Lower and Middle Lakes with the Upper Lake, 430 acres. Studded with thickly-wooded islands and backed by high W. Lawrence mountains and wild ravines, the lakes are celebrated for their beauty: they discharge their waters into the river Laune from the Lower Lake BEAUTY UNIMPAIRED BY MAN'S HANDIWORK AMID THE LAKES OF KILLARNEY IN COUNTY KERRY





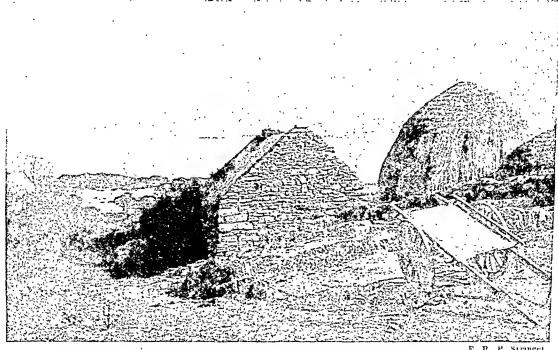
W Lawrence Tipperary hes at the foot of the Shevenamuck or Tipperary Hills, 23 miles from Limerick. It is the centre of a fine agricultural district with important eattle and butter markets; there is also a factory for making condensed milk. The town dates from the time of King John, but the gateway of a monastery, founded II. for the Augustimans, is the only relie of antiquity. The lofty tower and spire, seen on the skyline to the right in the photograph, is that of the Roman Catholic church of S. Michael, which has an extremely ornate interior MARKET AT TIPPERARY, THE GREAT AGRICULTURAL CENTRE OF ITS CATTLE





CLOGHANE AT THE HEAD OF BRANDON BAY BENEATH BRANDON

Brandon Mountain, 3,127 feet, is the highest point of a lefty range of hills stretching northward from Dingle to Brandon Head. The easiest ascent is made from Cloghane, passing through a wild glen with precipices on every side. On the summit is a cairn, and on the south slope a mound of earth called S. Brendan's hermitage, while the view embraces Tralee Head and the mountains of Iveragh



GREAT WILD HEADLAND OF BALLYDAVID NEAR COOSAVADIG
Coosavadig is a very simple fishing village on the Brandon Mountain peninsula of county Kerry.
The boats used by the fishermen are made of tarred canvas stretched over a rib framework of wood, and Irish characters are written over the shop fronts, while many quaint old customs remain. The whole coast-line is deeply indented and affords many impressive scenes of savage grandeur



NEWDRIDGE 19 WICKLOWS LOVELY VALE OF OVOCA The state of t



CLIFDEN OVERLOOKING ARDBEAR BAY ON THE COAST OF GALWAY

CLIFDEN OVERLOOKING ARDBEAR BAY ON THE COAST OF GALWAY

There is a valuable trade is 1/4 expectably holsters and in help will be those is is a ling retraint writer

stati i These ery in the relational seals very beautiful children group in coast and ig the Twelvo

Plans or it the false truthed distinct towards Roundstone

The second of the coast and the coast and the coast and in the coast

village expresses no tradition at all or, at best, a tradition of scraping along somehow or other. Even the inns in England seem pieces of comfortable In Ireland the public houses history. look like booths in a temporary encamp-Historical England survives in its inhabited places. Historical Ireland

rows of heavy stones hanging on cords from the eaves, blend delightfully with landscape. The little white, thatched house is, perhaps, the most distinctive feature of the Irish countryside, though cement and brick and slate and even corrugated iron are every day introducing commonness where beauty



WHERE THE BLACKWATER FLOWS INTO KENMARE RIVER

Kenmare river is really an opening of the sea between the counties of Kerry and Cork, being 28 miles in length and from two to six nules in width, and a favourite centre for trout and salmon fishing. The scenery on both rivers is wonderfully varied and exceedingly lovely. It forms a fascinating blend of water and island, wood, mountain and vale



Rising near the source of the Liffey in the Wieklow Hills the Dargle flows through green glens to join the river Bray and the Irish Sea



IRELAND. Glengariff is an Arcady of blue, quiet water and islets matted with woods, among the rock hills about Bautry Bay.

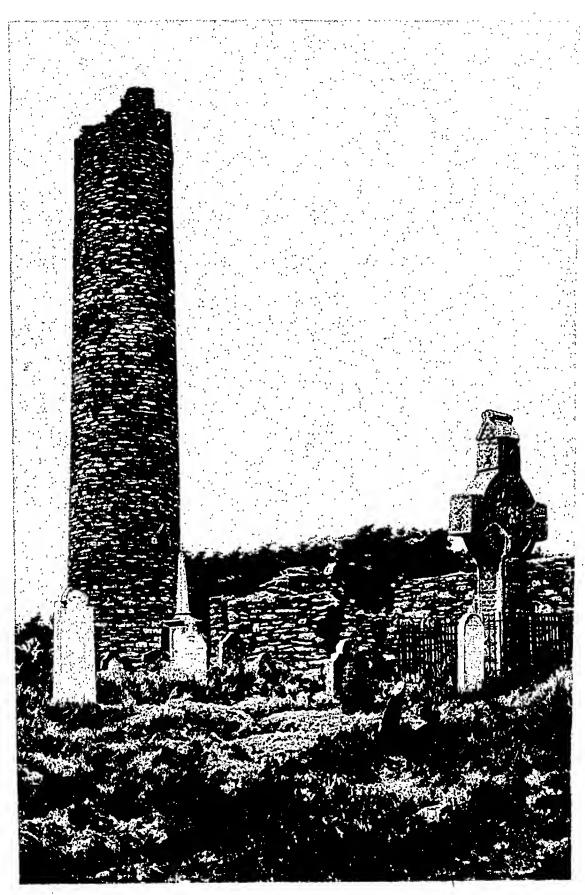
Fortion entry in pages 2305 and 1506 W. Laurence
2301



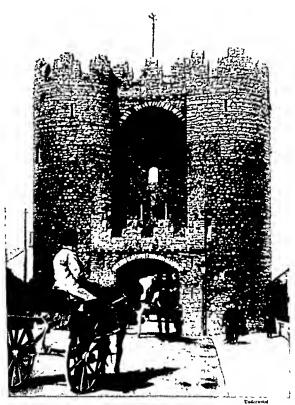
IRELAND. On a late winter evening, when the storm gathers out of the Atlantic and wishs of low cloud blow past the cold hills, Valentia harbour and its lonely lighthouse know a sad, wild beauty



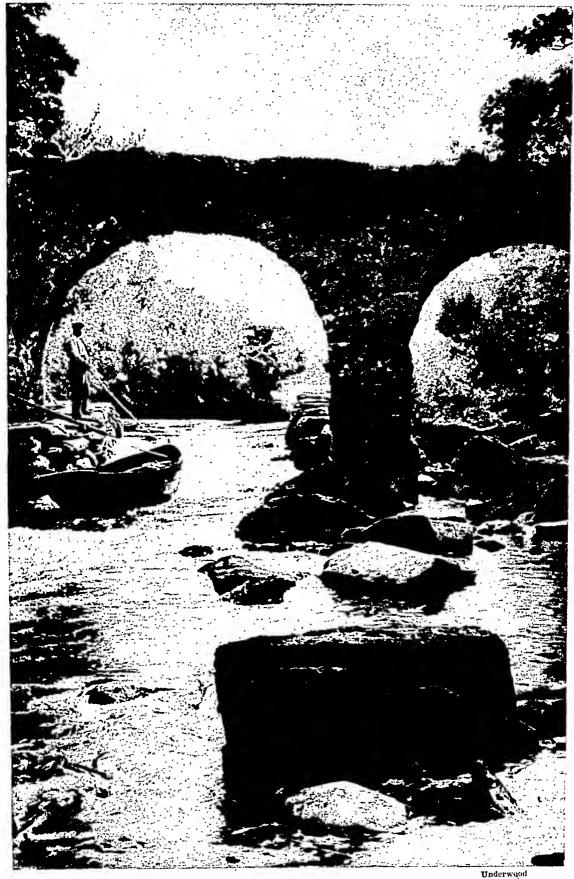
IRFLAND The southern end of Lower Lake at Killarner I water's edge and thick leases against the sky Raund a



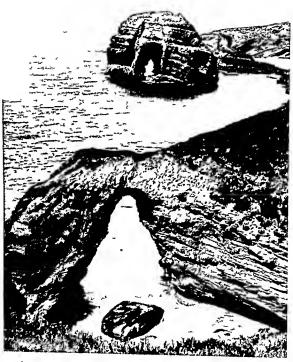
IRELAND. Near Drogheda are the fifth-century ruins of Monasterboice with a broken round tower and this wonderful Celtic cross 2304



IRELAND. The lowers of St. Lawrence's Gate, reputed to date from the twelfth century, are gloomy relics of the walls of Drogheda 2305



IRELAND. At Killarney a creek, the Long Range, flows two miles and a half by wooded ways from Upper to Muckross Lake 2306



IRELAND From the cliffs of Doon, by Ballybumon, one looks across a grey space of sea to the farther hills of the Shannon estuary 2307



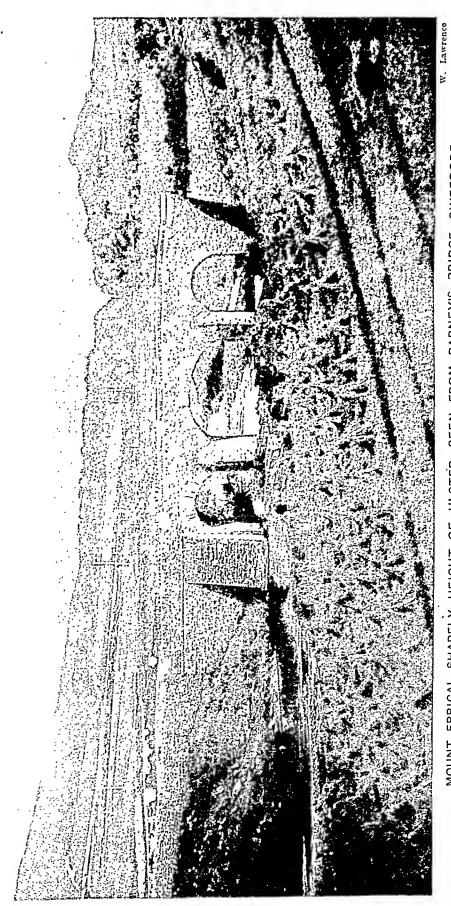
IRELAND. In north-west Donegal is a lonely road over the Derryveigh hills and beside it a stream flowing to Lough Dunlewey. The water is dangerous to drink and they call this wild place Poison Glen



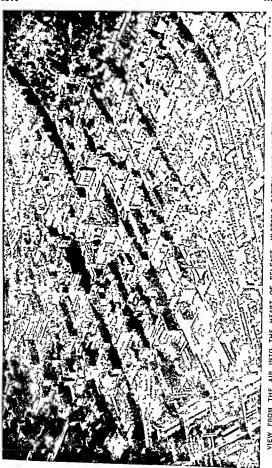
WILD AND BARREN ISLAND OF ACHILL OFF THE COAST OF MAYO Act there, so I be opposed in successful to successful the successful to the successful to successful to the successful

peat in the ur moves the infiguration like some lovely thin, in institute As for the poverty of the western scaboard of Conninght it is as unlike the agricultural prosperity of Minister is it is unlike the industrial prosperity of northe ist Ulster. Cork cannot vie with Belfast in manufactures but it is a capital of an agricultural province that, in peaceful times is exuberantly rich

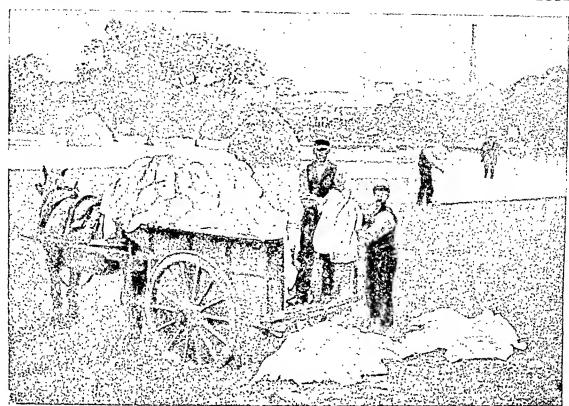
It has even been contended that the south on the whole is richer than the north of Ireland. I do not think this is true but the exaggeration serves a useful purpose in drawing attention to the fact that the south far from being a congested district of paupers is a region with resources rich possessions and all the materials of settled comfort. There are, unfortunately, far too few



Although nearly all the villages of Donegal are of the same mould, the landscape is of an infinite variety. The surface is usually broken and rugged and utersected by hundreds of streams and deeply-wooded valleys, while scattered hamlets and lofty ranges of hills with many bold peals stand ever within view. Donegal is a mountainous county, and Errigal, the highest point, lies five miles south-cast of Gweedore and is over 2,460 feet high. From its summit a remarkably gal is a mountainous county, and Errigal, the highest point, lies five miles south-east of Gweedore and is over 2,460 feet high. From its summit a remarkably fine view is obtained, extending over a sea of mountains, while many miles of the northern coast with its numberless inlets and ereeks lie at one's feet MOUNT ERRIGAL, SHAPELY HEIGHT OF ULSTER, SEEN FROM BARNEY'S BRIDGE, GWEEDORE

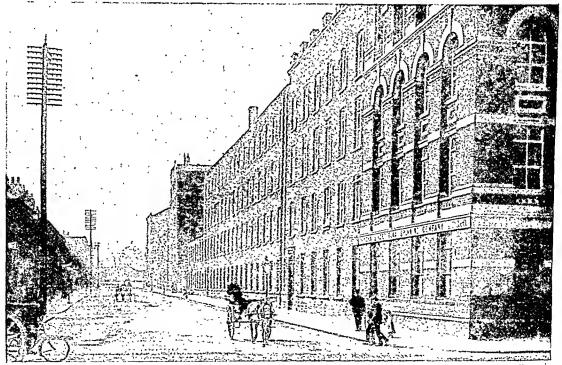


In the centre of the plote graph is the City Hall in Donegall Square an impeding store buld ng m the closic Remissance style occuping the site of the of Lice. Hall but teeth ecreanistee bull made and rectual distinction. Belief to other states which were tracted the largest single world where some of the greatest hares and cattleshys have been bull to a table bull has shares with his licen tracte thereing. 745 CIVEN tel acro an lacrated waters CENTRE OF Other manufactures are elements researches in tremin, ULSTERS FROM THE AIR INTO THE HEART OF BELFAST Beliast lies on the banks of the Lagan where it enters Beliast Lough of being the chief industry

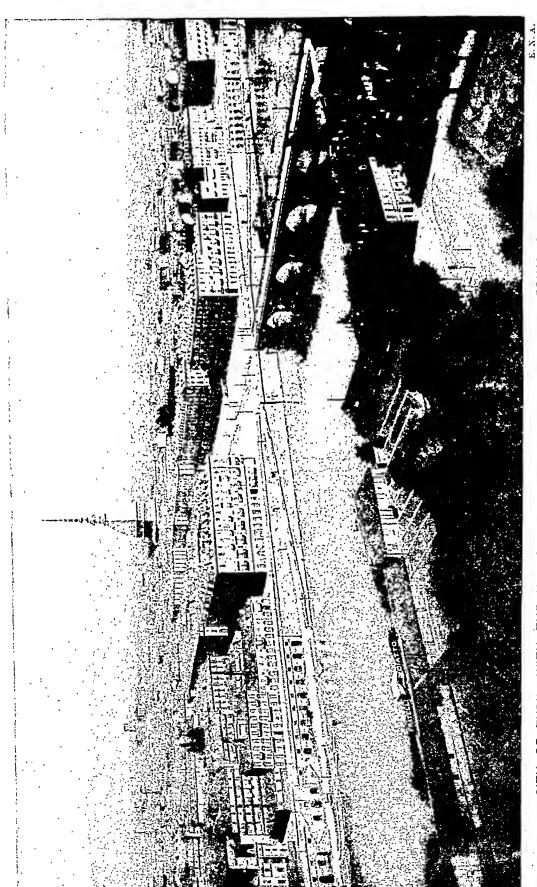


LINEN OF BLEACHING THE BELFAST

In enormous amount of flax is grown in Ulster, for the manufacture of linen is a staple industry; and in 1920 its spinning and weaving trade comprised 40,000 power looms and 1,000,000 spindles, and gave employment to 73,000 persons. It is estimated that the annual value of Ulster's linen trade is 12 millions sterling. Above is a bleaching field near Belfast, showing linen mills in the background



Ewing Galloway SOMBRE STREET AMONG THE DRAB FLAX MILLS OF As the chief seat of the Irish linen trade, Belfast has long been noted; it has immense manufactories where every description of the finest linen and damask goods can be seen. One of its largest mills is that of the York Street Flax Spinning Company, seen here, a vast building covering about five acres with some 60,000 spindles and 1,000 looms in operation, and employing over 4,000 people



Turin, a city of north-west Italy with a population of about 502,000, lies on the Po, 54 miles west of the Mont Cenis Tunnel, and is distinguished among Italian cities for the regularity of its construction. At one end of the Ponte Vittorio Enganuele Primo is the large piazza of the same name, which leads into the Via di Po, we were to the right of the phazza is that of the Mole Antonelliana, the highest briek edifice in Europe, used for the Risorgimento Museum. In flourishing manufactures include those concerned with motor-cars, steel and iron goods, ribbons, velvets and textiles CITY OF TURIN WITH THE HANDSOME PONTE VITTORIO EMANUELE PRIMO SPANNING THE PO

ITALY NORTH

Lombard Plain from Alps to Apennines

by Edward Hutton

Author of "The Cities of Lombardy"

TRAVILLER on his way from northern or western Lurope, who shall have the patience or the currenty to cross the Alps on foot, or at least by road, whether he attempt these mountains by the Mont Cenis, the Simpley the St. Gottliard, the Splügen or the Brenner Passes, will find, when he has crossed them, a vast ereen plant stretched out before him as far as the eve can reach, a country wide and gracious watered by many a great twer. scattered with fur cities and hing a little vaguely 1x tween always for away mountains. This plain, with the mountain sides which contain it, we call North Italy; in fact it is the old Civiliane Gant

The country thus defended on the north against the Germanies and on the west against Gail by the Alpa is closed on the east by the sea. I rom Italy it is divided by those far-away mountains—the Apeninnes.

Land Dominated by the Alps

This vast continental plain to the north of the Apennines lins been separated by nature herself from the true Italy to the south of them, and men have always felt the difference between these two countries when we come to examine that plain which expands like a tree trunk near the ground, as it approaches the Alps, and sends its roots far back into the mass of Lurope, we shall be more and more impressed by its non-Italian character. We shall find that "it is dominated for more by the Alps than by the Apennines, and that it contains a lowland and a river of true continental proportions which Italy cannot match, and for which indeed

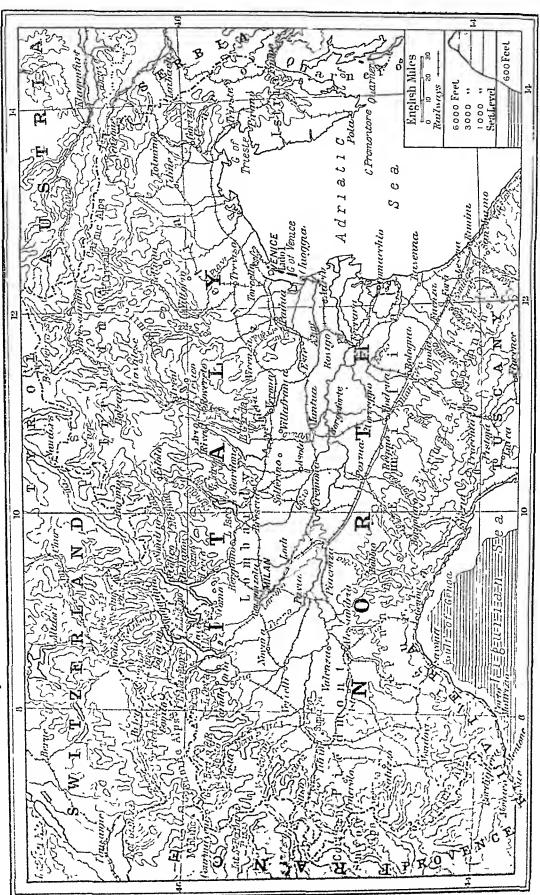
there is no foom in that narrow and monutanins pennish. The relation of Italy to Cralpine Guil-that is North Italy, the whole great valve of the Po, and Venetia, the vallex of the Iwa-Iris bent the same for ages.

Where an I'mpire Rose and I elt

The valley of the Po all this vast plan, appears in history as the cockpit of Lurope the battlefield of the Celt. the Phoenician the Latin and the Tenton Here in this Coulish country Hanmbal waited and recruited before he made his first descent upon Italy, in which the Oriental so nearly overthrow Lurope, here Caesar conceived and by a single act founded the Limpire, which here in its decay the barbarrans pulled to pieces, here Charlamagne reestabhshed it, and here the greatest and the most striking political achievement of the nineteenth century was accomhere Italy founded her unity

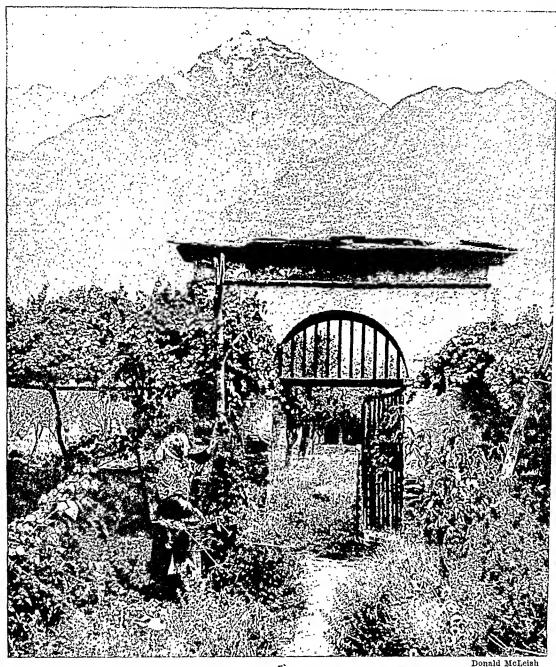
The concave clivin of the Alps which encloses the plain on the north and west is of a very great average hight and indeed consists of the loftiest range in Europe. The Alps full everywhere precipitonsly to the plain, are crossed by many difficult passes throughout their extent; and among the footbulb at their bies is a series of great likes—Orta, Maggiore, Lugano, Varese, Como, Lecco, Isco, Idro and Garda, of various extent, the largest being Garda. The Apennines, in the other hand, are comparatively low in height and among the most barren mountains in Europe.

In its origin the vast plain, surrounded on all sides but one by these mountains, was once a luige gulf of the Adnatic and is covered by pleistocene and recent deposits brought down



NORTHERN ITALY P PLAIN LAKE-STUDDED ALPS GUARDING THE THE





GREEN VINEYARD BENEATH THE SNOW-CAPPED BECCA DI NONA
To the south of Aosta rises the lofty peak of the Becca di Nona, 10,305 feet, commanding a superb
panorama of the Alps and the beautiful Val d'Aosta, famed for its pine trees, minerals and mineral
springs. Aosta, in the province of Turin, lies at the junction of the roads over the Great and Little
St. Bernard, and contains extensive remains of the old Roman fortifications

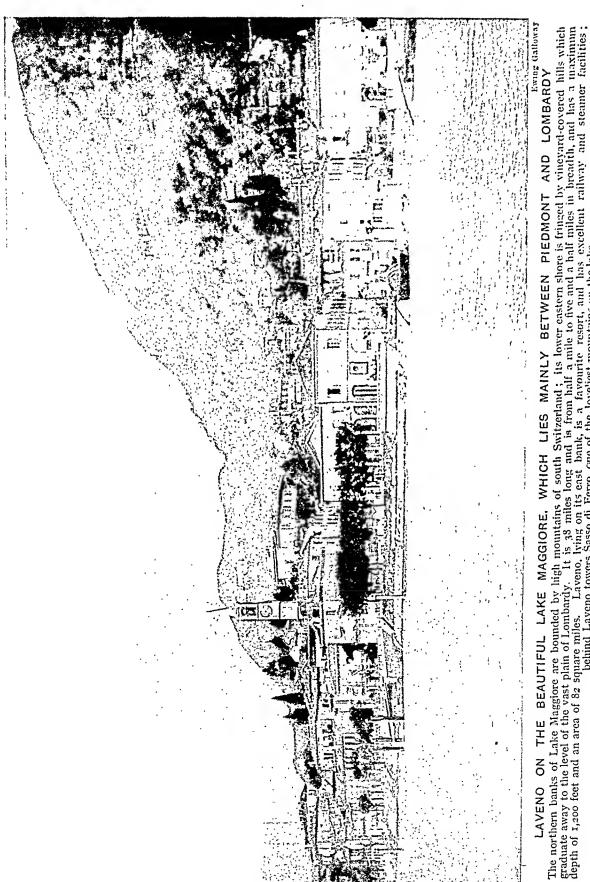
Alessandria. Lombardy: Milan (718,000), Brescia, Bergamo, Cremona, Mantua and Pavia. Venetia: Venice (171,000), Padua, Udine, Verona and Vincenza. Emilia: Bologna (219,000), Ferrara, Modena, Parma, Piacenza and Ravenna. Trentino: Trent. Istria: Trieste and Pola. Liguria: Genoa (316,000), Spezia and Savona. Of these Milan, Venice and Genoa are described elsewhere.

The Po rises 6,000 feet up, in two little lakes on the north face of Monte Viso at the northern extremity of the great curving Alpine range (Cottian Alps), and crosses the plain from west to east in a course of some 220 miles in a direct line till it falls into the Adriatic.

We have said that this whole country is far more under the influence of the Alps than of the Apennines. The greater

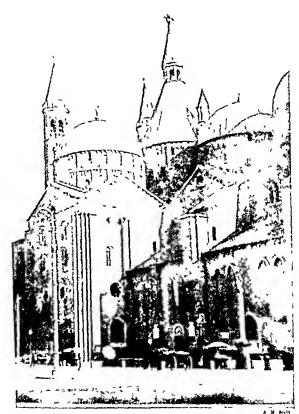


ITALY S BARRIER OF SOARING PINNACLES AND ABYSMAL VALLEYS Its starcefy cwins to these ditantic ulwarks on her northern fontier til at Itals copies a more e pixtle under northern than the succession of the pixtle of the countries to the north, bett the skies are not always of it deepert are renor is it e sun perpetually shining for the plain of Lombart's silvers from in a lations and it trential downpours. This is the Glader de Ligotenous below Wo til Blanc de Sellior.





CHAPEL OF S. FRANCIS OF ASSISI HIGH ABOVE THE LAKE OF ORTA
On the beautifully-wooded slope of the Monte d'Orta are twenty chapels, which were creeted in the
sixteenth century in honour of S. Francis of Assisi, each containing a scene from his history in
painted lifesize figures of terra-cotta. By the shore of the charming hill-girt lake lie the white
houses of the little town of Orta, set amid scenery of transcendent beauty



MANY DOMED SEPULCHRAL CHURCH OF 8 ANTHONY OF PADUA 1a has attantis on several branches of the flaced leftmen just above its confusion of court of its attantian while dity and was once the chief form of the flat. The church of S. Anthony was begun in 1232 and finally completed in 1242, it is a seven-domes of which the largest it is 5 feet high, and is said to coming a freightsys with the longue of the saint.

that very heavy torrential rains are frequent about the spring or autumn equinoxes. Masses of rain-laden clouds driven by the south wind break up against the Alpine barrier, and these downpours result in frequent floods and inundations. Add to this the fact that the atmosphere is humid, partly to be accounted for by the great and numerous rivers, the imminerable canals, the lakes, rice-fields and vast unreclaimed marshes about the river months, and it will be seen that the climate is trying.

Sunny Spring and Autumn

The Po basin in its main part is much cut off from oceanic influences, and consequently extremes of temperature are common. Thus Milan has a normal range of over 40° F. though less than 500 feet above the sea; while Udine has a mean temperature not differing 10° from that of Syracuse. The best seasons for travelling are, however, here as elsewhere in Italy, spring and autumn, when there is everywhere a very large percentage of sunshine.

The zones of cultivation throughout North Italy are three. In the mountains, both Alps and Apennines, pasture; on the foothills and lower slopes, chestnuts, fruit, the vine, the mulberry, the silkworm and the olive; in the plain, rice, maize, flax, wheat, hemp, and also the vine and mulberry.

Olives an Index to Climate

The olive, it should be noted, is found up under the Alps (46° N.). It then disappears, is not found in the plain, but reappears only south of the Apennines. This is a perfect index to climate. The winter cold in the south and least sheltered part of the plain and on the northern escarpment and in the valleys of the Apennines is fatal to the olive, though the summer heat is great enough for rice. The one real drawback to farming in the plain is the hailstorms which often destroy the crops when ripening or ripened. They are due to the effect of a cold air current

from the Alps upon the heated atmosphere of the plain.

Of the cereals, the most important is wheat. This is a splendid crop, but on the northern Venetian plain it is often crowded in order to produce a straw for plaiting, the making of straw hats being an industry. The best north Italian straw for this purpose is grown upon the hills of the Piave valley, where the grain is almost worthless but the straw valuable for its pale colour and fine lustre and toughness. About Parma, under the Apennines, the hard wheat produces excellent macaroni. Maize is the chief summer crop of the wet lands, often following hemp, the land thus producing two crops in one summer.

The rice of Lombardy and Piedmont is famous for its quality, but good rice is also grown about Ravenna and the north Italian peasants, indefatigable as they are, know well how to carry out the laborious cultivation necessary for this crop. Pavia and Novara possess the greatest acreage of rice, the best yield being found in Pavia and Mantua.

Where Gorgonzola is Made

The well irrigated pasture-lands of the Po and its great tributaries are the finest in Italy, and are for the most part devoted, especially in Emilia, to dairy cattle. The milk is made into cheese, two variations predominating, the Parmesan and Gorgonzola. A great deal of hay is also grown, these meadowlands thus watered yielding as much as a crop a month for eight or even nine months.

Sheep pasture on the foothills and the highlands, the chief centres being the sheltered Alpine slopes of Piedmont and Venetia. Local industries of the north are dependent upon the wool produced there, which is the heaviest per sheep grown in the whole kingdom.

Italy comes second to France in the quantity of wine she produces. The area under cultivation in the north is much smaller, and all the north Italian wines, while of good colour, are harsh. Perhaps the best wines of Piedmont are



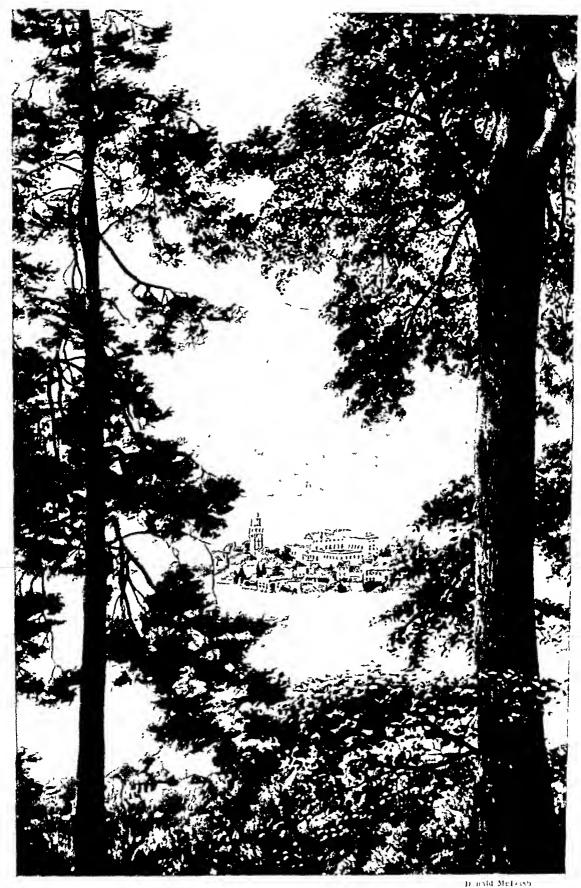
ITALY NORTH Seen from the woods above Arona the earth of Angera gleams white on its rock plinth by the shores of Maggiore



VININ NORTH. The course of the Diveria is shut in by the almost perpendicular walls of a wild defile which leads from the picturesque district beyond Gondo across the Swiss frontier into Italy



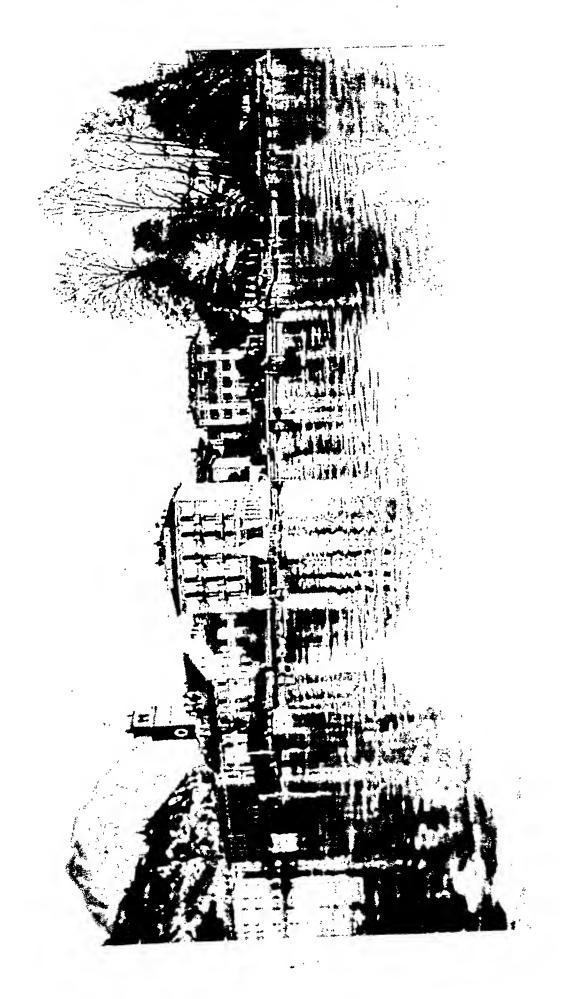
ITALN NORTH, Forming a semicric of the base of a root top for high shirt is cosmelly a number that is, and ancient from the on the separation Streamorchists (classes).



ITALY NORTH. Through a fretwork of foliage the island of San Giulio seems like a soft mirage on the slumbering surface of Lake Orta



ITALY NORTH Here is a little of Como's nater-magic, as if the cliff had been enchanted into a pleasaunce They call it Balbianello







ITALY NORTH. La Rocca, citadel of the mountain republic of San Marino, stands on the summit of the formidable Monte Titano

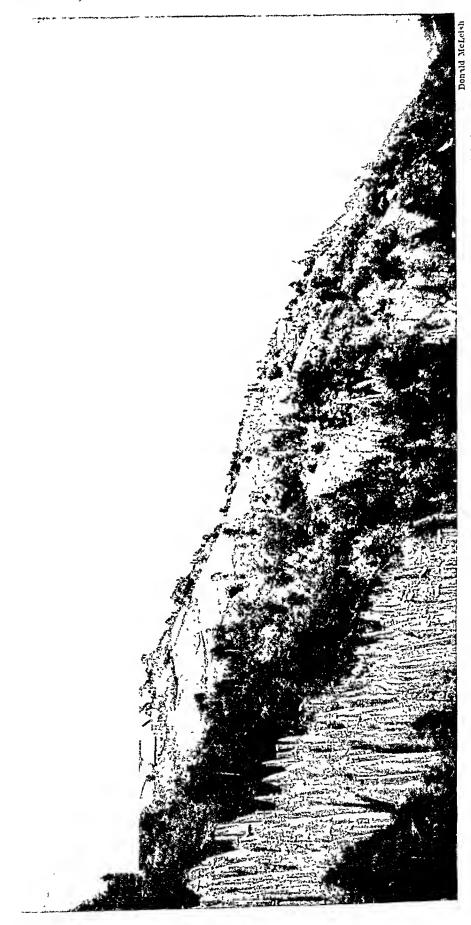


TRIESTE, ITALY'S VITAL SEAPORT ON THE ADRIATIC

Trieste, an attractively-situated modern port, lies at the north-east end of the Adriatic Sea, 73 miles north-east of Venice. With its large moles and breakwaters the harbour is the centre of an immense maritime traffic. The old town is scattered about the steep castle hill, while the new town borders on the sea; it was transferred from Austria to Italy by the Treaty of St. Germain



Ringin the Jillan Alps near the Profil Jass the 18 map; rises a reason bring course cliefly through Jillian Alps near the Profil Jass the 18 map; rises a reason bring course cliefly through Jillian I heavily swood for intry till it lies as hint the full off Trieste ten rules eath of rail. Lening nassignable only in its lowest section. The pris dipal town on its banks is Critia with a population of about 17 now which is manify engaged in the wearby findustries.



The long chain of the Dolomites, of limestone formation, distinguished by jagged peaks, great precipiecs and hidden valleys, is far-famed for its striking scenery, and alke to the mountaineer and man of science offers an immense and varied field of interest. This lovely section shows the towering mass of the Schlern, over 8, 100 feet high, while in the foreground are the remarkable Earth Pvramids for which this district, near the village of Lengstein, is noted. They are columns formed by the action of rain water on the soft material of an ancient glacier moraine, and are preserved from destruction by the stones, acting as unbrieflas, on their summits STRANGE HANDIWORK OF THE RAIN IN A LOVELY HIDDEN VALLEY OF THE DOLOMITES

is lacking in others and in the more refined products of mod rn industry they particularly excel

Note in this be said to be less enument in set neer and craftsmanship than in industry. Their professional men discretishing professional men discretishing and in crafts cability are among the foremost in I urope, while the working class artisan and persant is notion under the most intelligent, and hard

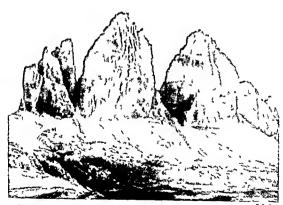
We mit thou attempt very briefly to speak of the cities of all this region overy one of which may be visit to be faing as

working in Lurope

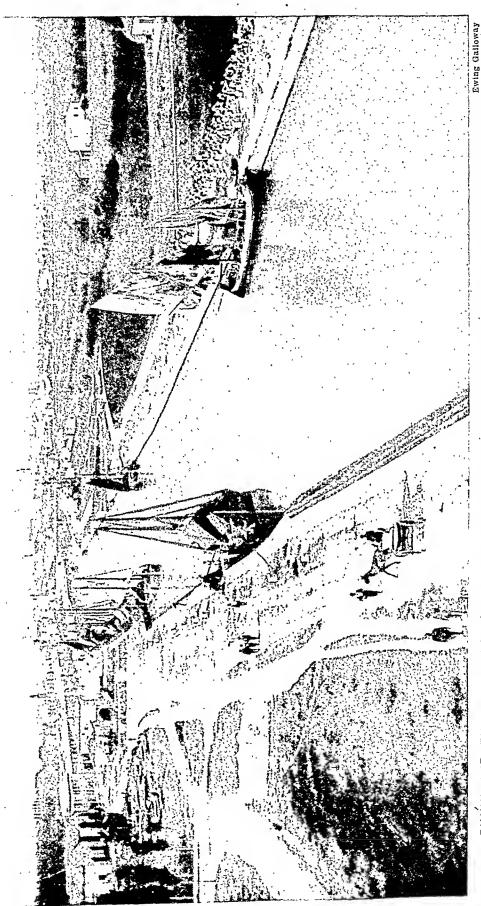
Turn and r the Superia is the chief city of Pislan int the capital of a 1100 ince and before 1800 of the King form of Surdina. I to n 1800 to 1805 it was the capital of the Kingdom of Italy. It stands in the plain at the foot of the Cottan Mp. 784 feet above \$\in 1.80 \text{ for of the Cottan Mp. 784 feet above \$\in 1.80 \text{ for on-chieff}, by passes of this range of the Alp. The mol rucity stands on the loundation of the Roman Augusta Taurinomian the city of the Taurini and until the end of the seconteenth century the Roman wills and gajes remained. To-day the north gate of the Roman town Portar Palatina still stands whil the Roman cast gate has been built into the Palazzo Madama

Tunn has a very mod in aspect, its strught and often wid streets being very undishing in aspect though they straft up a the CH Roman ways. The eith det of S. John Baptist dates from the end of the fifteenth century, and is as a whell in with cultist and certainly the best fulling, in the city.

Min the capital of formalidy is dealt with in aspectal article but some thing must be sail here of Pavia. It stan Is just above where the Tenno joins the Potant I has much to show the triveller. There is a great covered findse over the Tenno bestles a min versity and several and metalists.

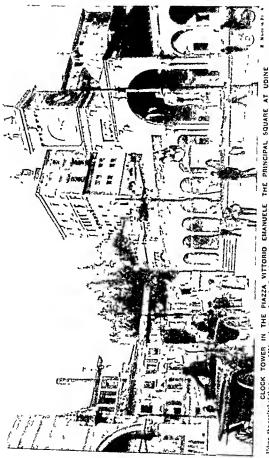


FANTASTICALLY SHAPED PEAKS OF THE LIMESTONE ALPS OF ITALY Wonder By gran In appears or hose bold Jac ed peaks with their store stream precipit supports that is at let a case the trailes of the solware Ries; about it er it from out each of the stream of the state of the stream of th

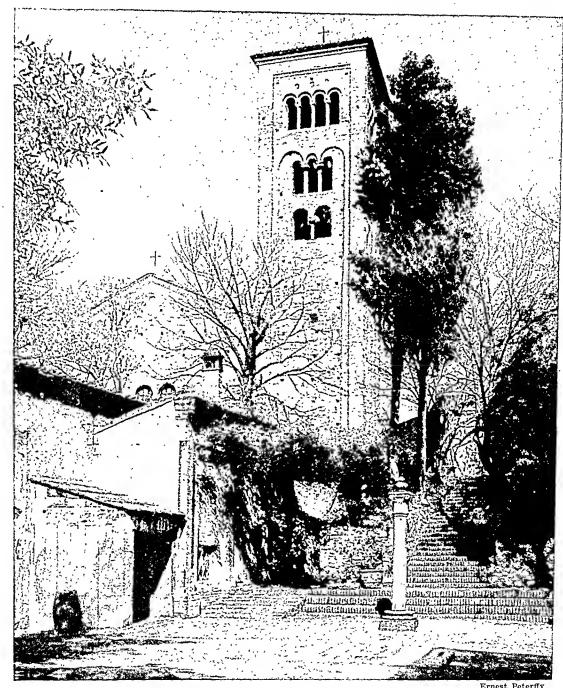


It is the ancient Ariminum, taken by the Rimin stands on the river Marecchia, near its mouth in the Adriatic Sea, 69 miles by railway south-east of Bologna. It is the ancient Ariminum, taken Romans in 268 n.c., and has a five-arched Roman bridge over the Marecchia, while the Porta Romana is a triumphal arch of travertine erected to Augustus, church of S. Francesco, originally a Gothic structure of the thirteenth century, was splendidly remodelled in the early Renaissance style in 1447-55, an THE UMBRIAN APENNINES MIDST OF A FERTILE PLAIN RIMINI AND THE MARECCHIA IN





bather Herapital et la the the thereath country it par of to beater in tern and in 1-91 t auce the chet squarect the toun abared with a sitting 'q recitioning test of the o re that at bers er mith its implicative giarts wit autilie that were en a lee b Udung the capital of the province of Uding, is situated on the Rola Canal in a fort by we feutinated plain were that the relevants of the early to be an I a tronze equestrian statue of Victor Emmanrel SI, priemal The clock to mer in the Passa Ville shall Bourishing manufactures faulu fing silks welvets sagar paper and was raised to an archbishorric.



IN A COURTYARD ADJOINING THE PIAZZA BYRON, RAVENNA Ravenna is a very ancient city, was mentioned in the history of Julius Caesar, and contains numerous beautiful buildings dating from the fifth and sixth centuries. Above is seen the church of S. Francis, one of the oldest in Ravenna, said to have been founded before the year 450. Adjoining this church is Dante's Tomb, a spot of peculiar sanctity for the many devotees of the great poet

but its most famous sight is not in the city at all, but a few miles away to the north. This is the great Carthusian monastery, the Certosa of Pavia, one of the most remarkable, though perhaps not one of the most beautiful, buildings in North Italy.

Delicious towns and villages border the great Lombard lakes, with their villas and terraces upon the shores of Maggiore, Lugano, Como, Varese, Garda, Iseo and the rest. The chief of all these lake towns is undoubtedly Como, set at the southern end of Lake Como amid a vast amphitheatre of mountains. Apart from its exquisite situation, its chief attraction lies in its noble cathedral, built entirely of marble, one of the finest

in Italy The nave dates from 1396 and is in the Gothic style, the transepts, choir and lovely upse are in the style of the Renaissance

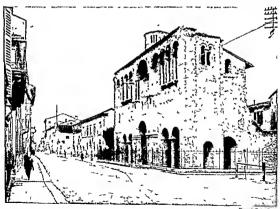
Bergymo, under the Alps to the east of Milan, is an example, rare in Lombridy, of a double city, having a Città Mita and a Città Bassa. The latter is not at all picturesque, but contrins some interesting churches and a fine pivizi once famous for its fair. It is given over to industry, cotton, silk and other manu factures. The upper town is wholly medieval in character and one may spend several days poking about its fine cathedral, churches and pilaces and lounging on the old ramparts enjoying the glorious views of plain and Alps. Here is a famous gallery of pictures.

Bresch, always framous for its manufacture of arms, is situated very benutially at the foot of the Mps. It is a city of fountains and running waters, with a few fine churches and palaces and a collection of antiquities, the chief

treasure of which is the famous statue of Victory, a bronze found in 1826, standing 61 feet high The Museum is established in the old Timple of Hercules There are two eathedrals, the older, known as La Rotunda, dating perhaps from the tenth century, the newer dating from the seventeenth

Cremona, of old so famous for its volus and volas, the city of the Amati, of Stradivarius and Guarneri, is now famous, fat all for its sill. It is a benutial old city, queter than any other of its size—it has 59 000 inhabitants—in Lombridy Many of its streets and pruzzas are grass grown, the Po sweeps idly by, and over all towers the noble great bell tower, the Torrizzo of the thretenth century, 307 feet high

Mantun is an ancient city that lies in the lazy arms of the Minero, which dimost surrounds it with lakes of still waters, so that it seems like something magical which is florting upon the bosoni of these smooth waters. Tannous as the home of

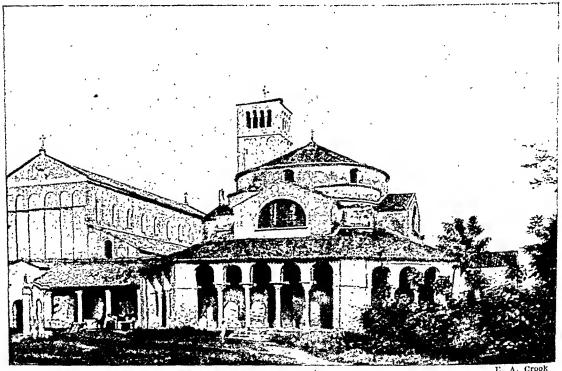


NARROW FACADE OF THE PALACE OF THEODORIC AT RAVENNA
Ravenna stands on a marshy plana 44 miles from Bologna and for 350 years was virtually the
capital of Ital). The Palace of Theodoric was plundered by Belsantus in 350, and in 754 its art
treasures and many of its columns were removed by Charlemapue. The remains include a narrow
facade with round arched bland arcades and a colonnade in the upper storey.



OF PIAZZA VITTORIO EMANUELE IN THĖ HEART BOLOGNA

In the centre of the city of Bologna is the Piazza Vittorio Emanuele containing an equestrian statue of Vietor Emmanuel II. in bronze by Monteverde, and at the west end is the Palazzo Comunale. a large Gothie building begun about 1290, with a clock tower dating from 1444. Over the main entrance is a bronze statue of Pope Gregory XIII., by Menganti, erected in 1580



CHURCH OF SANTA FOSCA ON AN ISLAND OF THE VENETIAN LAGOON.

The small island of Torcello, lying six miles north-east of Venice in the Venetian Lagoon, contains many treasures interesting to students of art. Of the several old sanctuaries in the town, the cathedral of Santa Maria Assunta, founded in the seventh century and rebuilt in the ninth, and the twelfth century church of Santa Fosca, externally octagonal with arches on five sides, are noteworthy



VIA RIZZOLI AND THE TWO LEANING TOWERS OF BOLOGNA
In the l'azza d forta Raceman stant the Leaning Towers the rost significant cutters of Bologia
both plain, so nee brick but things. The Tower Ashaell resected about 100 is 300 feet high and
4 feet out of the perper to lar with a stalenase of 447 steps to the 5 mm; it is unfished fore
Gatisenda commenced in 1110 is 136 feet bill, about but 138 feet out of the perpendicute.

Virgil, Mantua was in the fourteenth century the seat of the Gonzaga House and in the fifteenth and early sixteenth centuries the home of the famous Isabella d'Este, wife of Giovanni Francesco Gonzaga. Mantua then became a treasury of art: all the greatest artists of Italy supplied her palaces and villas with their works; she collected rare books and valuable antiquities here. In 1630 the city was stormed by the Austrians and never recovered itself.

Old Cities of the Plain

Piacenza is the great and ancient crossing-place of the Po from Lombardy into Emilia, and at least from Roman times it has provided and controlled this means of transit. The finest monument in the town is the Municipio, as fine a Palazzo Pubblico as even Italy can show. The great piazza in which it stands, the huge Palazzo Farnese, the Palazzo dei Tribunali, the cathedral and the church of San Sisto, all bear witness to the importance of Piacenza in bygone days.

Much the same interest belongs to the cities of Parma, Reggio and Modena: that is to say, they were all stations upon the great Roman road, the Via Emilia, though not of the importance of Piacenza, for they commanded no crossing.

Of the three, the most interesting is the city of Parma, as it is the most picturesque and beautiful, the city of Correggio and of the Farnese Duchy. It boasts of a noble Lombard cathedral and an even finer baptistery, with several fine churches and handsome palaces, the finest being Palazzo della Pilotta, and an important picture gallery containing several works by Correggio.

Bologna of the Leaning Towers

Unquestionably the most important city upon the southern side of the Po is Bologna. It is important for many reasons: it is not only upon the great Roman Via Emilia, but it controls the major passage of the Apennines from the plain into Italy proper. It is the

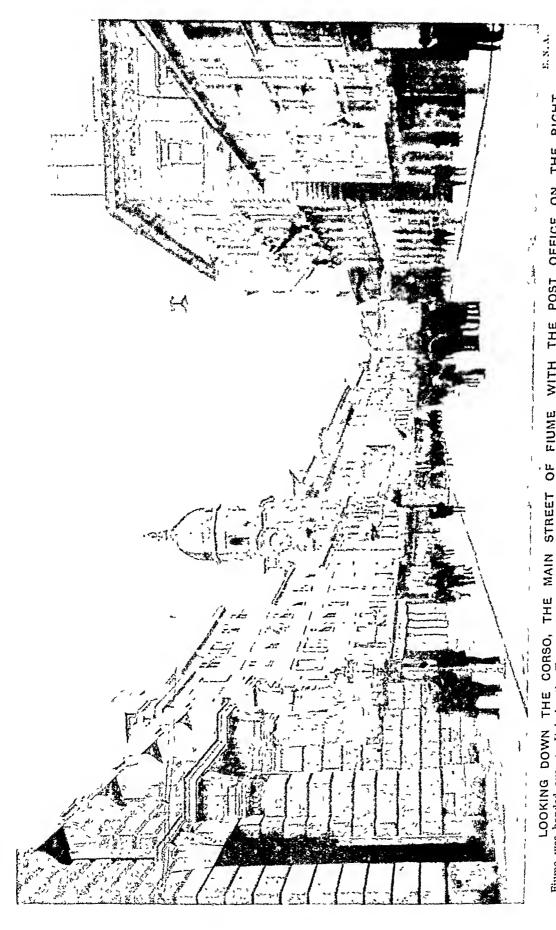
capital of Emilia, possessing a very ancient and famous university. But it can never have been, with its grotesque leaning towers, one of the more beautiful cities of Italy, though its narrow and arcaded streets, its many palaces, piazzas and churches, give it an Italian character beyond any other city of the plain.

Ferrara belongs wholly to the plain; indeed, to the marshes into which the plain degenerates about the last reaches of the Po and the lagoons of Comacchio. The city of the great Este family, princes here and patrons of poets and painters, Ferrara has memories of Tasso and Ariosto.

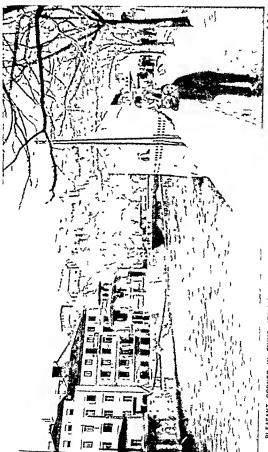
If Ferrara seems often half deserted and full of mist, what are we to say of Ravenna, which, lying here within a few miles of the most desolate of seashores, where the Emilian plain fades away at last into the Adriatic, is like a marvellous reliquary beautiful with many fading colours and encrusted with precious stones? It was the Roman Classis—with a seaport, the Roman naval station upon this sea, which then was the fault, as it were, between East and West.

Ravenna, the Tomb of the Empire

But its greatest days began with the failure of the Roman administration when, commanding as it did the main way into Italy, in fact the only way (for the Apennines are a barren range), it became the great fortress of the defence, and during the long years of the reconquest of Italy from Byzantium, the seat of that government and its representatives the exarchs. These facts explain the great churches and monuments still gorgeous with mosaics which date from these centuries, including the tomb of Galla Placidia, sister of the Emperor Honorius, the tomb of Theodoric and the chapel in Ravenna is the Archiepiscopal Palace. a city of the past, the tomb of the Empire-a glorious tomb; and there lies the poet who could not believe that it had vanished, Dante Alighieri.



Fiume was handed over to Italy by the Treaty of January 27, 1021, with Serbia. It stands on the river Rectina at the north-eastern extremity of the Adriatic. The town has several harbours—the Fiumara canal, used by coasting vessels; the Baroso harbour; the main harbours, protected by a mole; and the free and petroleum harbours to the west. Practically the whole of the shipping trade of Hungary passes through the port, and there are valuable úsheries in the Bay of Quarnero. The town possesses distilleries, petroleum refineties and mills, while there is trade in fruit, chemicals and saap THE POST OFFICE ON THE RIGHT MITIM



ON THE NORTH EASTERN COAST ther 'al on the eppeade at each the mer tr ina, thet he ma Calvario accorded by the Via Monte Calvario with 23 > 11-ps, is seen you find with a NEW POSSESSION A very anor il scaport town I lue e nai ko sun as S. bit se in II The population of Frime is mainly its tan but in Stat.

Rimini is the last of these cities of North Italy upon the southern frontier. In its market place the Via Emilia meets the Via Flaminia. Its river, the Marecchia, is the frontier of Italy proper. But in Rimini you do not think of such things as these, you think of Sigismondo Malatesta who built, or rather transformed by the hands of Leon Alberti, the old Gothic church of S. Francesco into the glorious Renaissance building we see: a pagan temple rather than a Christian church. Close by Caesar crossed the Rubicon and thereby founded the Empire.

Verona is first and foremost a great fortress like Bologna, but much more formidable. It holds the passage of the Alps by the Brenner into the Germanies. It holds the first, the outer gate. You would not perhaps guess that it had so mighty a responsibility, so well is the steel hidden under sheer beauty. The swift Adige rushes right through the city, washing her dark and

venerable houses and walls. Like nearly all of these cities she is Roman, only here you never forget it by reason of the vast amplitheatre, more impressive, I think, than the Roman Colosseum, which stands in her midst. Still, what you chiefly think of in Verona is not Rome but Romeo and Juliet, and you are quite right, for the city is wholly medieval, and all its beauty is owing to that time. It is those dear ghosts that haunt you as you pass through the noble piazzas and palaces and in and out of the many great churches, the cathedral, S. Zeno, S. Natasia and S. Maria in Organo.

One returns to the Middle Ages on coming into Padua with its ancient university, and its frescoes by Giotto and church and tomb of S. Anthony.

The plain with these its cities has played a great if not a determining part in European history in the past, and the future in all probability holds for it no less a destiny.

ITALY NORTH: CEOGRAPHICAL SUMMARY

Natural Divisions. Continental Italy, the plain of the Po, once a gulf of the Adriatic. The peninsula of Istria and the connecting land link round the north of the Adriatic and, to some degree, the Trentino are natural outliers of the plain. Unity is given to the whole by the curve of the Alps all round the northern boundary. Only Liguria lies south of the Apennines, Italian in allegiance it is physically part of the Riviera (q.v.).

Rivers and Lakes. The Po has filled and is filling the ancient gulf of the

Rivers and Lakes. The Po has filled and is filling the ancient gulf of the Adriatic; powerful rivers bring a weight of water and alluvium, which has forced the Po to the foot of the Apennines. (Cf. the Ganges and the Deccan.) The delta should be compared with that of the Danube. (Cf. Dobruja.) The lakes in the Alpine rock basins are characteristically long and narrow. (Cf. the fresh-water

lochs of Scotland.)

Climate. The climate is continental, not Mediterranean; note the rains at both equinoxes. The main feature is, however, that of aspect: the Alpine slopes facing south are storehouses of warmth and sunshine and permit of the cultivation of olives; the Apennine slopes facing north are inclement and barren. In winter Milan and other cities are almost as cold as Hamburg or Bergen; in summer they are as hot as

Marseilles and Palermo. Summer hailstorms are typical of a continental climate.

Vegetation. The variety of aspect produces three east-west vegetation zones: chestnuts on the Alpine zone; maize, wheat and rice on the lowlands, and a barren zone on the Apennines.

Products. Vines, mulberries, silkworms, clive oil wheat and macaroni maize.

Products. Vines, mulberries, silkworms, olive oil, wheat, and macaroni, maize, rice, flax and linen. Manufactures, increasingly based on water-power, silks, linens, metallurgical products (especially

motor cars).

Communications. The plain is a passage-way with an east-west route, once seriously considered as an alternative to the Central European route between Paris and Constantinople; with cross routes from Mediterranean ports, Genoa, Naples, Brindisi, through Alpine tunnels to Central and Western Europe. Sea traffic by the Adriatic from Trieste and Venice.

Outlook. One of the world examples of an alluvial lowland occupied by a dense population congregated in many famous cities (cf. the Ganges valley), continental Italy has great land resources, on which with the help of water-power can be built an enduring prosperity based upon the energy and industry of its people. One of the lands of increment where labour achieves a large return.

ITALY SOUTH

Paradise of Vineyard and Olive Grove

by Cecil Headlam

Author of 'Venetia and Northern Italy ' etc.

TAIY is divided geographically into two distinct parts north and couth, and southern Italy is in many ways a different country from that which lies to the north of the Apenines. It is different in climate and in shape its geological formation is different. These differences are reflected in the life of the people, their art and architecture, and in the productivity of the soil

Below the great plan of Lombardy stretches a long peninsula, shared like a boot and terminating in a heel (Apulia). a toe (Calabria), and an instep formed by Bashcata and the Gulf of Taranto Its dominant features are an immense " length of scaboard and a prolonged range of mountains. For the lunestone ranges of the Apannines which form the southern wall of the Lombard plain, pervide the whole peninsula, dividing it into east and west and governing its physical character. Roughly speaking, they consist of two curved lines. The first, starting from the Ligurian shore in the north west, runs in a south easterly direction into the neighbourhood of Ancona, about one third of the way down the Admitic coast Thence the southern bend crosses the country in a south westerly direction, pointing to the toe of Italy, filling the whole of Calabria and reappearing, after the dip of Messina, in the north of Sicily (Ltna), and again in Tunis

March bordered Coast line

On the western side of the northern curve he the lowland provinces of Tuscany, described elsewhere, and Latium Their coast lines are bordered by the marshlands of the Maremma and the Roman Campagna partly formed by deposits of the rivers Armi and Tiber. The islands of I ha and the Tascan Archipelago curs on the mainland scheme to Corsea. Unibra, the central bisin of which was once a great lake, but is now druined by the river Tiber and its tributaries forms the central proxime between Tascaus and Latinia on the west and the Marches and the Abruzzi on the cast coast.

Lakes in Patinet Volcanors

It is methe Abruzzi that the Apennines are highest. Monte Corno (Gran Sasso, d Italia), rising to 95% feet. Between Latium, and Calibra he Campania and the fettile gardens which surround the lovely city of Naples. To the west of the Central Apennines, between Penigin and Rome is a strict of lakes Trisimeno Bolson Bracerana and Albano. Take Lake Avernus, near Naples, they occupy the craters of extinct volcations.

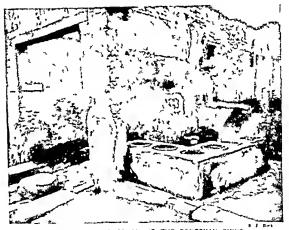
The geological formation of southern Italy is of exceptional interest. There is an old "block" extending from Frato the south of Naples. Fitting into it is the broken claim of the Apenmies, consisting of reminates of the old rock which, as the earth's surface cooled and contracted, were thrown up into enormous folds.

This is, perhaps, the most recent great "fold" in the world. The arca east of the Apennines between the "heel" and Gargano is really a continuation of Delhartia, as a chain of islands indicates. The two countries live been separated by the sinking of the land and the formation of the Adratic. Here the layers of rock are not folded, but he almost horizontal The Tyrthenam Sea lars also been

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HOW THE APENNINES THRUST A SPUR INTO THE MEDITERRANEAN

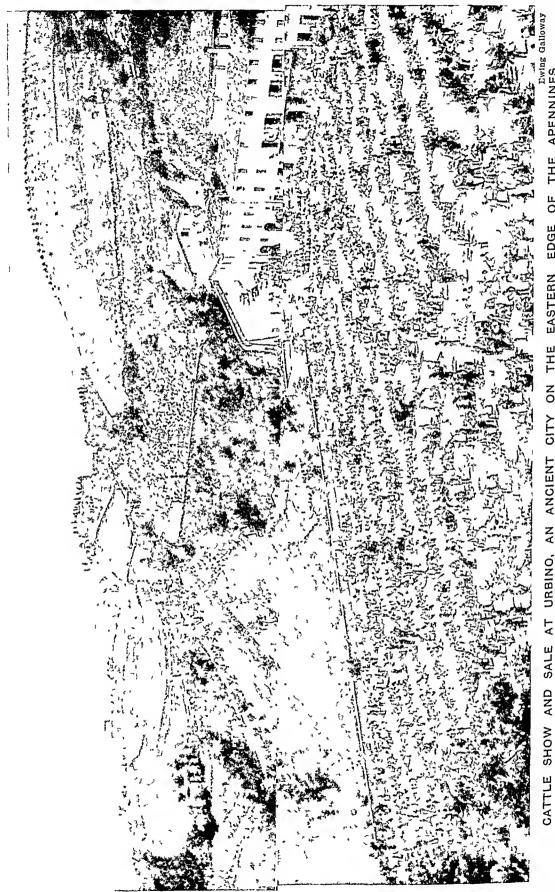


ANCIENT WINE SHOP AMONG THE POMPEHAN DUINS
Ther as it must be all the suit as time (the state in a compiler in Au trap) in when any ploty it rated into the earth with hills I want it as be as it and the state affections is all in the earth and hardled certains resulting the state of the sta

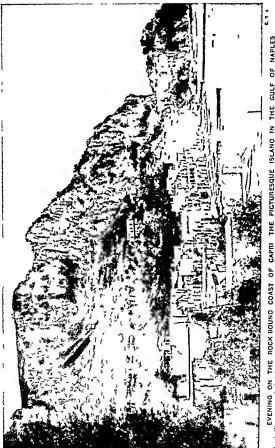
still spismodicully active. Their eruptions sometimes deal destit and distruction as at Pomper Herealianum and Me ina. But they intensify the fer ility of the soil as the vineyards orange and 11 mon process and vegetalles and flowers of the Campajana Lehecabout Naples testify. The volcame region extends as far north as Parma

Mountains serve as barriers against invasion. The bend of the Apennines trade for centimes finly was divided into little independent states

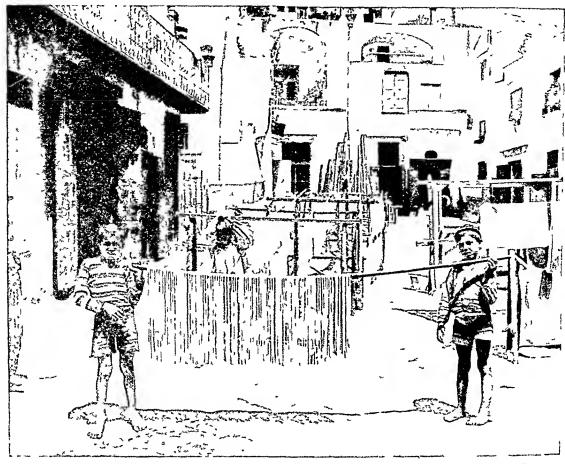
While reting as battiers mountains also provide refuge. Intile hilliop vid lages are a characteristic feature of southern Italy with which the great painters of Umbria in particular linux made everybody familiar. Steep and rocky fastnesses they flower above rich plants intersected by streams, and over all is the clear blue bowl of the Italian.



The city of Urbino is situated in the province of Pesaro e Urbino on the side of a hill among the barren eastern ridges of the Apennines. As a celebrated centre of art and literature it was well known in the fifteenth and sixteenth centuries, and a certain dignity attaches to it as the birthplace of the immortal Raphael. The main products include eiks, olive oil, majolica and cheese. This picturesque cattle show, held on the outskirts of Urbino, comprised upward of two thousand head of fine beast, chiefly draught oxen, sent from farms in and about the neighbourhood; not one coloured animal was on the field OF THE APENNINES ; not one coloured animal was on the field EDGE EASTERN CITY ON THE ANCIENT



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Ewing Galloway

MACARONI BY THE MILE: A DRYING-GROUND AT AMALFI

The chief source of industrial prosperity at Amalfi is concentrated in the paper mills, but the manufacture of soap and macaroni is steadily increasing. Macaroni, as all the world knows, is a staple article of food of the Italian people. The paste, made from the flour of a hard wheat, is formed into tubes or strips, cut into lengths and then hung up to dry in the open air

sky. The plains themselves are almost destitute of dwellings.

Perhaps the most picturesque of all these hilltop towns is Orvieto, long used as a refuge by the Popes from turbulent Rome. Set upon a circular tufa rock, and looking down over its precipitous sides upon a fertile valley aglow with flowers and vegetation, it is crowned by the towers of a medieval eastle and a Gothic cathedral whose sculptured façade is a blaze of lustrous colour. In such hilltop towns the thick-tiled roofs keep the houses cool. Cold is combated by the use of a chareoal-box passed from hand to hand.

These mountain retreats give security against brigands and afford a refuge from the malaria bred in the lowland marshes. Lack of water is their chief drawback. On the arid hillsides the small rainfall

quickly escapes, except where it is stored in cisterns cut in the rocks. But many such villages depend upon a single well or spring at the foot of the hill. Some in Calabria have no local supply at all. Their water is brought daily by rail and carried on mules from the nearest station. This lack of water is partly responsible for the incredibly filthy conditions and absence of all sanitation which generally prevail.

Naturally the methods of agriculture which obtain in such surroundings are backward. On the larger estates machine ploughs, reapers and tractors are being introduced. But on the smaller mountain holdings the one-handled wooden plough described by Virgil is still in use, and men, women and children reap and garner the crops by hand. The shepherds are largely nomadic. The dry



QUIET SCENE IN BEAUTIFUL AMALFI ON THE QUIF OF SALERNO On the Hofsir 3 smiles well east 1 sayles les Annalf far fan edd ritht selycant series will won feld hyperposite men tains an incess and lettraced are in 5 aprope, no eap titlette it delt dere double now to the Meditertanean teat Gazede et a stilline law wilch was to guide many cet unies lut its formed edd eigh dater a breithe it un tailon in the of uneter to restrict the many cet unies lut its formed edd eight dater a breithe it un tailon in the of unter the restrict to

Sea. The tunny, a large coarse fish which is preserved in oil, is the chief item of the Italian fishery. Anchovies and sardines are caught in the Northern Tyrrhenian Sea. The best fishing grounds are in the neighbourhood of Naples. Corals and sponges are collected between Sicily and Sardinia,

Italy's Bid for Sea Trade

The south of Italy was once the centre of the sea-borne traffic from the Levant to the Strait of Gibraltar. Modern Italy is striving to regain a large share of Mediterranean traffic and trade with the Near East. The acquisition of the ports of Trieste, Zara and Pola will further this purpose. With the same end in view she is making a series of commercial agreements and developing The gross her merchant marine. tonnage of Italian steamships rose from 933,000 in 1914 to 3,000,000 in 1920. She is also expanding and modernising her ports, notably Venice, Palermo, Naples and Genoa. Bari and Brindisi are other southern ports which will develop with the eastern trade. At present imports largely exceed the exports. For the principal exports being chiefly perishable and of no great bulk, such as eggs, cheese, silk, manufactured cotton, wine, fruit and flowers, are consigned to central Europe by rail, while the imports, for the most part bulky, such as coal, iron, timber, machinery and raw cotton, come by sea from Great Britain and America.

River Blessings in Disguise

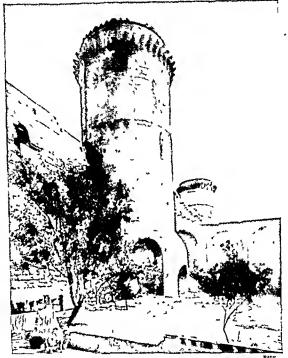
The majority of the rivers which rise in the Apennines are of little importance. Short, steep slopes render their courses short. After the heavy rains in winter and spring, they swell into torrents which wash down the sparse and precious soil and cause disastrous inundations. In the dry summer months they shrink to a mere trickle, and their stony beds alone indicate their winter force. They are of no account for navigation, but for irrigation and water-power they have immense possibilities.

Southern Italy can only boast two rivers of real importance, the Arno and the Tiber. Their sources are adjacent in the central mass of the Apennines. The Arno, which rises near Arezzo, is described under the heading of Tuscany. Not far away, by Città di Castello, the Tiber has its beginnings. It winds southwards for 210 miles through the mountainous region of Umbria and then finds its way along the northern edge of the flat, marshy district of the Roman Campagna. The Tiber is sometimes, like the Arno, a very turbulent stream. It forms no natural harbour at its mouth, but small steamers can ascend it as far as Rome, 14 miles from the sea. The Tiber valley is the one great natural entrance into central Italy from the sea.

Roads that Lead to Rome

"All roads lead to Rome," because Rome, the capital of the civilized world, was connected with the rest of Italy and the provinces by a series of magnificent military roads. From the south, ways converge naturally towards the lower reaches of the Tiber. But northwards the position is peculiar. Here the governing factors were the passes into the Apennines and the difficulty of surmounting the high mountain barrier in the north-west about Genoa. In modern times a road has been cut along the face of the cliffs and the rocky headlands. But the line of least resistance for the traveller to the north was either to ascend the valley of the Tiber or to follow the coast to Pisa, and cross over by the low La Futa pass to Bologna and the valley of the Po.

It was on these lines that the Roman engineers drove their roads, and modern railways follow them in the main. But they have developed a more definite system of east and west coast routes. On the east coast, the railway hugs the shore almost the whole way to Brindisi, the port for Alexandria. Special fast "ferry" boats bring hither the mails from the East via Port Said. On the west coast the line also follows the



TWIN WATCH TOWERS OF ORIA IN THE APULIAN PENINSULA

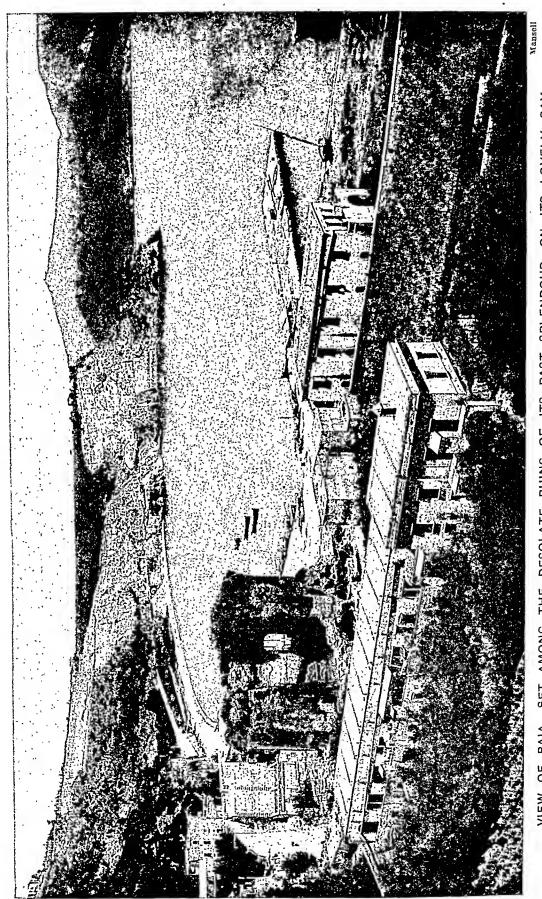
Some 25 miles alm al due rist to Farmio liet decit in the first in C Oria the ancient

Oria at an altitude of sporter (1/km) may a three sall town in the proof of these As illustrated by the control of the con

cost shirting or burrowing under the Apeninies where they reach down to the sea. The northward route runs through the Apeninies by the river Reno to Bologia. The rulways in this mountainous country profusily decorated with tunnels' and interspersed with difficult gradients give

ample proof of the terms of Italian engineers. I lectricity is most suitable as the motive power in such ecuditions.

Owing to the comparatively recent geological formation of the southern principal the straty of vegetable origin are not in an advanced state of fossilisation. Coal is therefore prictically



Now little its lovely situation and hot sulphur springs f the imposing buildings of the Romans; The small town of Baia, the ancient Baiae, lying on a bay of the same name ten miles west of Naples, contains only a few relies of its old-time importance. SPLENDOUR, more than a thinly populated village, it was once one of the most famous and opulent watering-places of ancient Rome, BAIA, SET AMONG THE DESOLATE RUINS OF ITS PAST making it a popular resort of the Roman Emperors and the wealthy tolk of

non-existent. Italy imported 11 million tons in 1913 But the rise in the price of corl, owing to high wages and freight and adverse exchange, has led to a great increase in the mining of lignite Lignite is plentiful, but its heating power is small. Attention has therefore been turned to water power and electricity. The construction of reservoirs to conserve, and of plant to distribute the electric energy latent in the varying volume of the mountain torrents will go far to solve the problems of heating, lighting, traction and As the volume of the manufacture southern streams is highest in winter and spring, while the northern rivers are swollen by melting snows in the summer, the interchange of electric power offers great possibilities immense amount of capital has recently been invested in the development of Italian " white coal "

The Mediterranean Climate

Although the roads are very indifferent in some parts, notably in Calubria, elsewhere they are computatively good for motor traffic. You can reach the heart of the Abruzzi in a couple of hours from Rome. A postal air service his been established between Rome and Naples. The aeroplane industry, which lan guished after the end of the Great War, his again rowned.

The climate of Southern Italy differs markedly from that of the north a "Mediterranean climate," moderately wet winters with prevailing westerly winds being succeeded by very dry summers eaused by the trade winds A diagram of the rainfall would show a curve descending, approximately, from four to three inches per month from October to March, dropping from two in April to one in May and June and practically none in July, and rising again to one in August and two in September Thus the rainfall of Naples in inches is January, 34. February, 30, March, 30, April, 28, May, 18, June, 13. July, 08, August, 12, September, 29. October.

November, 4.9; December, 4.2 The mean annual temperature of Florence is 59.4°T, of Rome 60°F and of Naples 62.2°F A pittless sun scorehes the land for five months in the year But since no part of the country is more than 60 nules from the sea, the summer heat is tempered by cool sea breezes

Winds of Little Comfort

Less pleasant is the piercingly cold tramontino, which blows from 'the mountain tops that freeze," the gusty bora, which betts up the shallow waters of the Adriatic into sudden, choppy sets, and the enerysting strocco, which blows from North Africa. Heavy fogs tree from the marshes, but for the most part the air is clear and dry, and the satisface blue with that azire intensity so enchanting to northern eyes. On the whole, it is an out-of-doors climate, and the Italian is never so happy as when lounging in the city square and discussing affairs in the piazza.

The Italians are a prolific race Births exceed deaths by three-quarters of a million yearly, and the country is one of the most densely populated in Europe But it cannot feed itself, for one third of its area is unfit for tillage, and the greater part of the sterile land lies in the south Tertile regions about Lucca contrast sharply with the marshes of the Campagna or the barren, rocky hills and unkindly clay soil of the extreme south Emigration has therefore assumed enormous proportions and constitutes one of the peculiar problems of southern Italy While the "Americans " bring back or remit large sums of money. whole districts, such Basilicata, are practically depopulated during the summer months Development of the country is thereby impeded

Reclaiming a One-time Garden

Yet much of it was once a garden Measures are slowly being taken to reclaim it from the desolation caused by centuries of foreign oppression, brigandage and Papal misgovernment The chemical industries, stimulated by the Great War, are developing the production of nitrogen from the air for fertilisers. The parched lands of Apulia are being irrigated by the great Acquedotto Pugliese. In Calabria a huge reservoir on the Sila is to store water for irrigation and electric energy. Education of the peasant in modern agricultural methods, cooperation and the wise use of capital would greatly increase the productivity of the soil. Drainage may reclaim the marshy low-

estates (latifondi). The owners usually let them to contractors who farm through agents (fattori). There has recently been a revolutionary movement for expropriating such lands and converting them into peasant owned small-holdings or cooperative enterprises. In any case, capital is needed for working and improving such farms.

Except in a few favoured districts the agricultural south is poor. Socially, economically and industrially, it lags



SMALL CONE OF VESUVIUS IN A CRATER-BED OF TWISTED LAVA Rising in isolated majesty from the plain of Campania, on the shore of the Bay of Naples, to a height of some 4,000 feet. Mount Vesuvius is the best known volcano in the world. It has two summits, the cone of Vesuvius proper and the old crater of Monte Somma; this photograph was taken 500 feet down in the active crater and shows the small 200-foot cone surrounding the central fininel

lands which he within the curve of the Apennines, and, with the destruction of mosquitoes, relieve Sicily, Sardinia, the Maremma, Roman Campagna, Basilicata, Calabria and a large portion of Apulia from the scourge of malaria. Where land has been so reclaimed, as in the case of Lake Fuc no, the valley of the Liri, the maishes of the Prombino and the Pontine Marshes, it has proved very fertile.

In the Roman Campagna and the south, land is divided into large

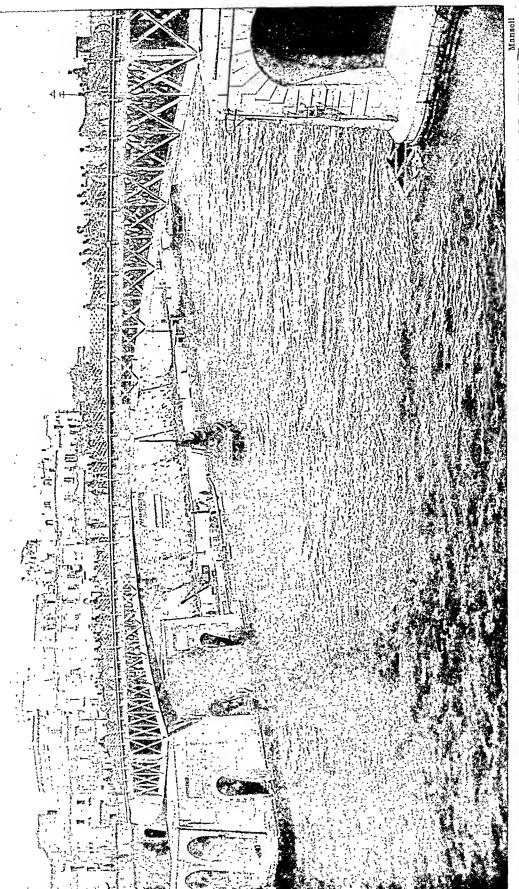
behind the industrial north. It has, moreover, been penalised by the high protective tariffs which foster the manufactures of the north. It is gradually becoming less true that Italy is a country "where two stages of civilization coincide in the same state." But fifty years of political unity have certainly not yet bridged the gulf between a Lombard and a Sicilian, a Piedmontese and an Apulian. The general statement may be made that while the northerners have many of





PECULIAR BEEHIVE ROOFS OF APULIAN ARCHITECTURE

Allerodello, a delightulity qualet plays, half form half willars, is situated in the Applian peninsula not far from the seaport of Bari. All ough it contains a few buildings which strike a more modern note, the presulting type of architecture is seen in the so named "trull," or small house, with a suiting and cone shaped roots, a popular style among the peasantry who treet it everywhere in their Jelds



The pleasant town of Taranto, the ancient Tarentum, is set on an island at the head of the Gulf of Taranto, an arm of the Mediterranean which separates the GREAT ANTIQUITY ON THE SOUTHERN COAST OF ITALY RON SWING BRIDGE OF TARANTO, A CITY OF so-called " toe " from the " heel " of the b In the kingdom—and its extensive doeks.

temples, churches, villas and gardens. More entrancing than Tivoli itself are the views from the hill on which it is perched, for it looks over the great prairie, the Campagna, which surrounds Rome like a sea of colour.

So, through fields and groves among timber-clad mountains dotted with walled villages, the Sabine mountains beloved of Horace, you come to the picturesque medieval hill-town of Subiaco. Here was the first hermitage of Benedict, and here are the remains of the great lakes constructed by Claudius and Nero. Here Nero built himself a lordly pleasure-house for feast and song.

Rome the Eternal, Florence the City of the Lily, Naples the Siren City, are described in other sections of this work. But if the traveller turns his steps to Central Italy he will find in Assisi and Siena, amid the loveliest surroundings of Umbrian and Tuscan scenery, the homes of Francis and Catherine, saints who are among the greatest spiritual leaders of the world. At Assisi he may trace the early developments of the national style in painting in the works of Cimabue and Giotto. At Siena, amid dazzling marbles and delicate pavement-work, he may study

the Sienese school of painting. Or at Perugia, that ancient Etruscan city, with its steep and winding medieval streets, which broods over Umbria like an eagle in its nest, he may learn to love the grace, vivacity and sentiment of the Umbrian school.

Very different from the attraction of these shrines of medieval saints and cradles of modern art is the appeal of Pompeii and Herculaneum. There Roman civilization has been preserved in miniature, as it were, by the ashes and lava of the great eruption of Vesuvius in A.D. 79.

Every town in Italy, indeed, has an individual character and charm; almost every town its particular artist of repute. And for mere variety of beautiful scenery southern Italy can scarcely be surpassed. You may dream of the delights of bygone emperors, by the grottos of Capri, sunlit in the singing sea, or wander among the wild gorges and barren hilltops of Calabria and the Abruzzi. Or from Viterbo, famous for its lovely fountains and beautiful women, gaze over the Ciminian forest and upon the hills which are covered in early summer by yellow flowering shrubs, as it were with a cloth of gold.

ITALY SOUTH: GEOGRAPHICAL SUMMARY

Natural Divisions. Italy has three regions, the continental plains (see Northern Italy), insular Italy (see Sicily and Sardinia) and peninsular or Southern Italy. The peninsula is that part of Italy which is due to the upfolded mountains, the Apennines, which lie between two areas, once land now sea; on the west Tyrrhenia and on the east Dalmatia (see Mediterranean Sea). The land is still unstable, Vesuvius, Etna and Stromboli being active volcanoes.

Climate. Mediterranean type—a hot, dry summer, when the sun parches everything for five months, and a cool winter with moderate rains. (Cf. Corsica, Crete.)

with moderate rains. (Cf. Corsica, Crete.)

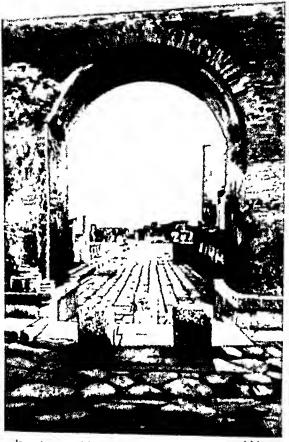
Vegetation. Forests (chiefly chestnut)
which still occur and are to be replanted.
Grasses requiring cultivation on the
alluvial flats. Maquis thickets. (Cf.
Corsica.)

Water supply. The rivers are short, almost dry in summer and torrents after the rains. Hence water must be conserved, and irrigation schemes are

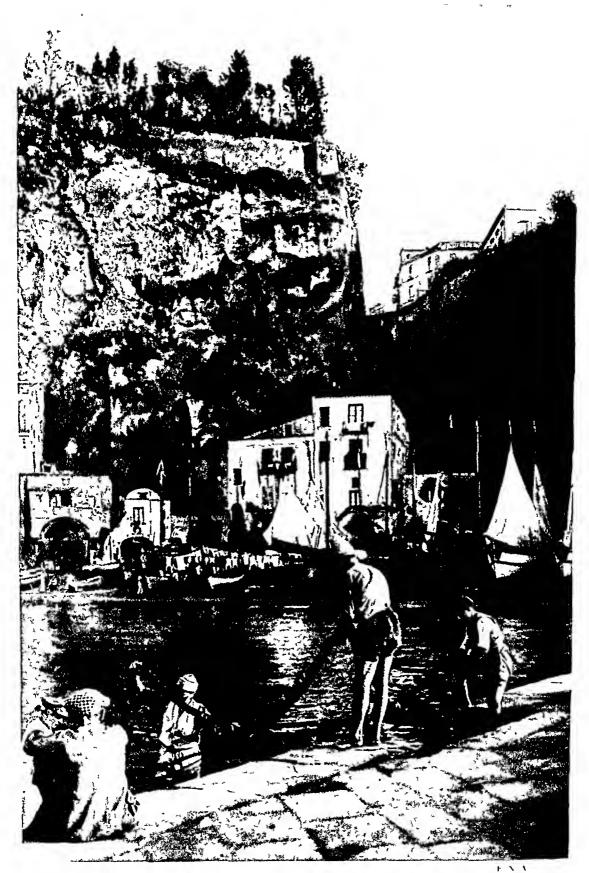
imperative needs; hence, also, the possibility of hydro-electric power installations. A more copious, and more regular, water supply is essential for agriculture and sanitation. On the other hand the coastal lagoons and marshes require to be drained and reclaimed to remove the incidence of the scourge of malaria.

Products. Typically Mediterranean. Wheat, wine and olive oil (cf. Spain); citrous fruits (cf. Sicily); barley, figs, dried fruits (cf. Greece). Iron ore from Elba. Tunny, anchovies, sardines, corals, sponges. Yarn and cotton goods, coarse woollens.

Outlook. With less favourable resources and a less favourable water-supply than Northern Italy, the South suffers from a population surplus which emigrates to the Americas, both north and south, and to other parts of the world, to serve as labourers on great construction contracts; under better home conditions more could be made of the home country.



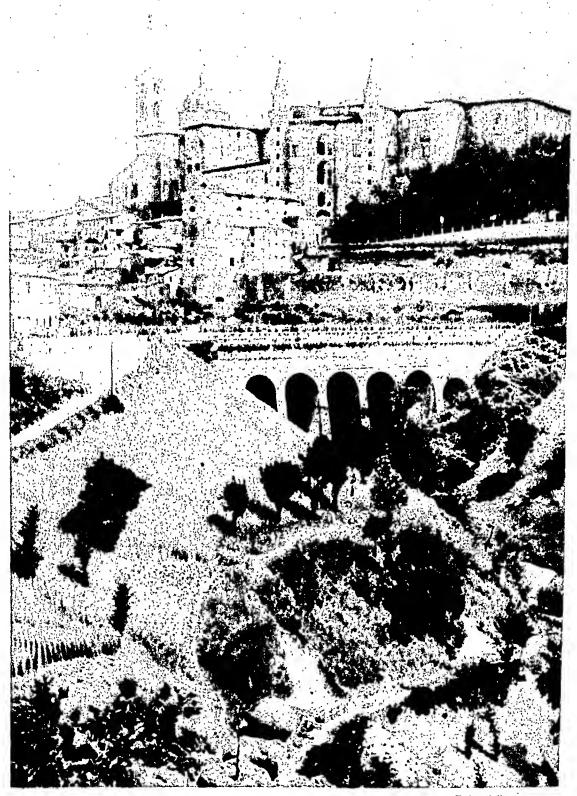
ITALY SOLTH Asles redshift from destroying Francisc elevel this archivay to Pampen's Forum The state blocks kept out the tenffe



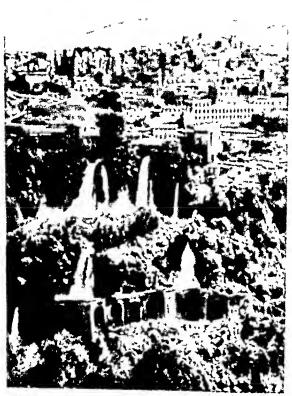
ITALY SOUTH. The Marina Grande is the fishing harbour at the west end of the limestone ravine that guards Sorrento's land approach 2366



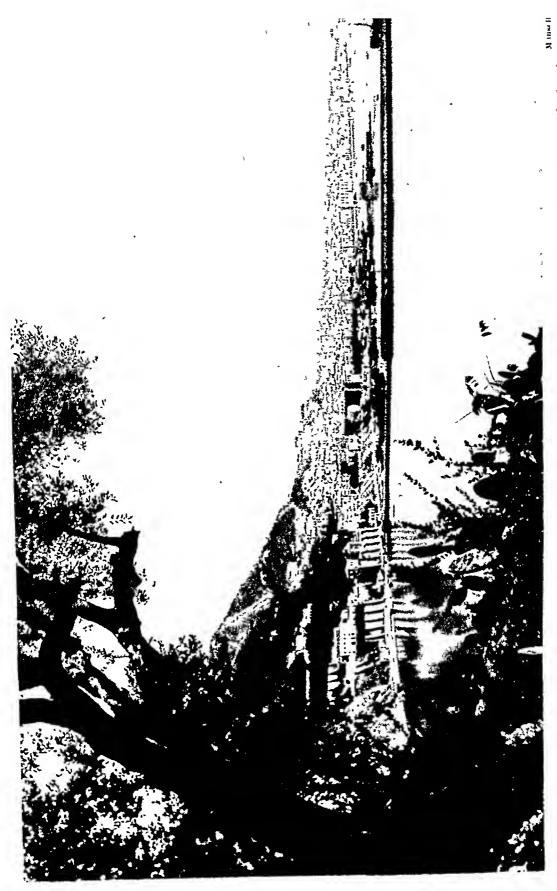
ITALY SOUTH. Sending a plume of steam into the blue Italian sky this cone, 250 feet high, is a temporary outlet in Vesuvius' crater 2367



ITALY SOUTH. On the north side of Urbino the fifteenth-century Ducal Palace faces the gaunt Apennines with a long line of wall 2368



Trace South To do to built in the Source Hills of source in the stage of per the Unite threeks in coursely of record for the 2169



Texes South. Mong the seashore at Salerno runs a fine esplanade, the Corso Garibaldi. Behind, the town leans up towards a majesty of hills, and in front are the blue levels of the Twrthenian



An arone of gunny trees, whose leaves close on the approach of man, loads to the potace barracks pointed Force in St. Calherine's Pointh. The bandless are fortoward with "old man's board." at Spanish Town in St Catherine's Parish



JAMAICA. On the main road from Lacovia to Black River there are the famous four green miles of the Bamboo Avenue

JAMAICA

Favoured Island of the Antilles

by Frank Cundall

Author of "Historic Jamaica," etc.

THE statement that Columbus, physical character of Jamaica, squeezed up a piece of paper and threw it on the table before his royal patrons is probably apocryphal, but it is of happy inspiration. It is the readiest way of reproducing the island's crumpled fulls, tossed and torn by torrential rains and by successive submersions and risings in nature's process of manufacture The result is an island of surpassing beauty, of fulls forest-clad to their topinost peaks, of vales and plateaux, of rolling pastures and of streams flowing over rocky beds

The Island forms the centre of the Caribbean Sea, which was probably in prelistoric times an infand lake with the Greater and Lesser Antilles as its northern and eastern bounds. The four Greater Antilles, of which Jamuea is the third largest consist of a disconnected chain of mountains about two thirds of the altitude of which are now beneath the sea. Measured from the deep sea plain from which they are, they exceed any heights in Europe or North America.

Lone Mountain Backbone

Jamaca is a longish mal in stripe, 144 miles in length and about 44 m width, with a brickbone of mountains running through the long axis, declining more or less rapidly to the sea all round. Here and there is a health giving plateau, and here and there a fruitful interior valley, "karst". Indi as modern geologists call it, drained by sink-holes.

In its general geological formation the foundation of the island is composed of igneous and metamorphic rocks, some

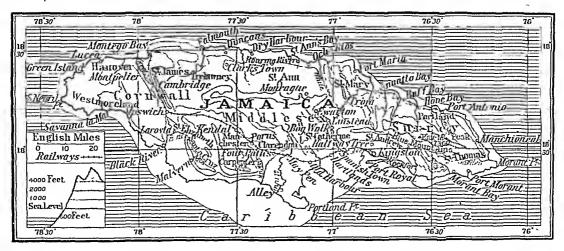
mineral bearing overlying which are several formations, white and yellow linestone and carbonaccous states.

Kingston harbour the finest in the West Indies though not capacious enough to accommodate HAS Hood, has a total and of about sixteen square nules of which about sexten taxe a depth of from sixen to ten fathous. The rise and fall of the tides around the cost do not exceed system inches.

Itain that I alls in "Seasons"

The characters exceptionally equable, varying from 65' F in August in the low lands to 17° at an altitude of 7 500 feet At an elevation of 500 feet the variation is from 85° to 70° December January and Pebruary are the coolest nunths, when the weather is as a rule idealbright sunshme tempered by balmy winds, with an occasional shower to lay the dust from April the weather becomes warmer until the usual May ' seasons' of continuous run which cool the air for a time, set in then the heat micreases until Suptember when the atmosphere is close just before the advent of the October "seasons"

A series of years of plentiful runfall is often followed by a series of droughts, when the "seasons" fail the average runfall for the whole island being about 76 inches The north-east part of the island is the wettest and the central coast sections on the south side and the north-side are the driest. During the "seasons" rain sometimes falls to the extent of 20 inches in 24 hours in the high mountains and about 1 inches in the plains. Lacept during the "seasons" there is rarely a day when the sun is not seen, relieved by light clouds



CRUMPLED HILLS AND VALLEYS OF JAMAICA

The prevailing trade winds which reach the southern coast from the south-east and the northern coast from the north-east, can be relied on during the day, except during the months of July, August and September. At night a cool wind comes from the hills.

The dry hilly regions in the south-west and in the centre of the northern half of the island afford a climate that is characterised by agreeable warmth, abundant sunshine and total absence of fog, eminently suitable for those of delicate health.

Hurricanes, when they come, usually appear from the months of June to September inclusive. In the winter months the wind occasionally blows cold from the north, and is locally known as "a norther," often synchronising with a blizzard in North America.

Residents in the West Indies become accustomed to slight shocks of earth-quake, but it is only occasionally that these do severe damage.

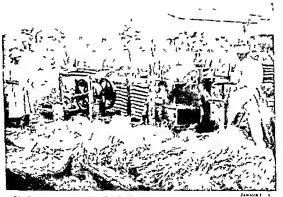
When Columbus discovered Jamaica it was covered with virgin forest and uncleared bush, and in the higher and more inaccessible parts that condition remains to-day. Amongst its principal trees are the giant cotton-tree, one of the few deciduous trees in the island, which rears its head above its fellow trees, the lace-bark with its muslin-like fibre frequently used as a textile; the yacca, mahogany, cedar, satinwood and the mahoe (all beautiful cabinet woods);

and the logwood, anatta and fustic (all three yielding dyes).

It is thought that the sugar-cane, to which the West India islands owe much of their prosperity, was introduced by the Spaniards. Of trees and plants now common in the island which we know were not existing when Columbus landed, be mentioned the cinnamon, nutmeg, rice, pindar nut and cherimoya, the bougainvillea from Brazil and the jack-fruit and ginger for which Jamaica is world famous. The ever useful and beautiful bamboo came to Jamaica island the neighbouring The orange, lemon and Hispaniola. citron were brought by the Spaniards from their own home, and coffee, kola and akee came from tropical Africa. Various kinds of yams were brought from Africa and the East Indies; the cocoa from Polynesia; the shaddock and hibiscus from China.

The mango, now one of the common trees of the island, came in 1782 from India, and guinea-grass, which flourishes throughout the island and has been a great boon to cattle and horse breeders, came by accident from West Africa. The breadfruit was brought into the island in 1793 by "Breadfruit" Bligh, who possibly also brought the banana; and the plantain was in the island when Blome wrote in 1672.

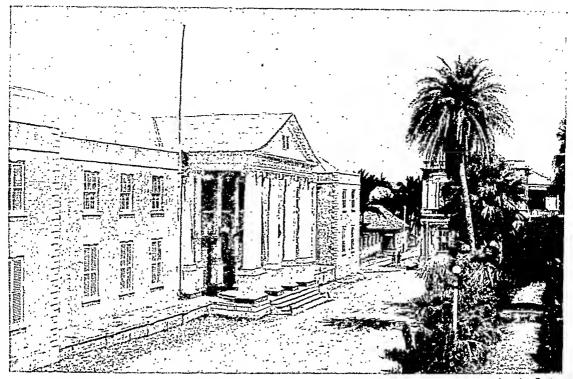
Of animal life there were among the mammals only the cony, now found in the rocky recesses of the high mountains.



PORTABLE BISAL MACHINE TRANSFORMINO LEAVES INTO ROPE FIBRE Soils grown with crisid rubbe success in Ja. als a tier lant Driving m.m., soils of the isla will not be not floral neutron a laterally first first larest alteral as the receiver in the if clining the success of the control of the c

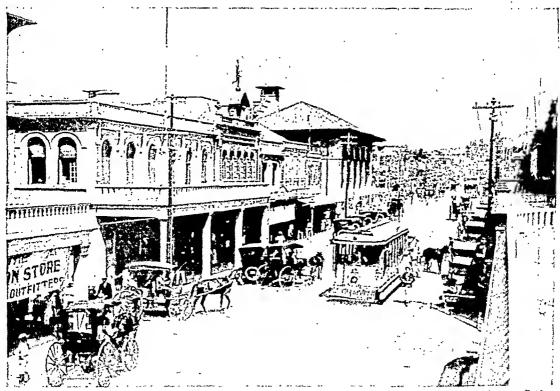


has been found necessary to cross the British eattle with Indian animals to enable them to withstand ELIZABETH The cattle are raised both for the butcher and HODGES IN THE PARISH OF ST. among the best bred in Junaier and in great demand in the other West Indian islands A STOCK-FARM AT famaica, is a widespread industry HEREFORD



Jamaica Govt.

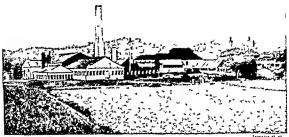
KING'S HOUSE AT SPANISH TOWN, JAMAICA'S FORMER CAPITAL Spanish Town, in the county of Middlesex, is about 12 miles by railway from Kingston. The town was the capital of Jamaica until 1872, when the seat of government was removed to Kingston, since when it has gradually lost its importance. The Old King's House, which was formerly the governor's residence, stands in the square and dates from 1762



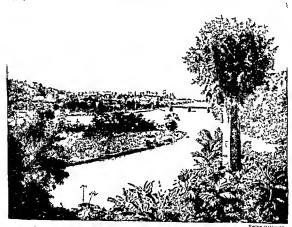
Jamaica Govi

KING STREET IN KINGSTON, CAPITAL AND SEAPORT OF JAMAICA

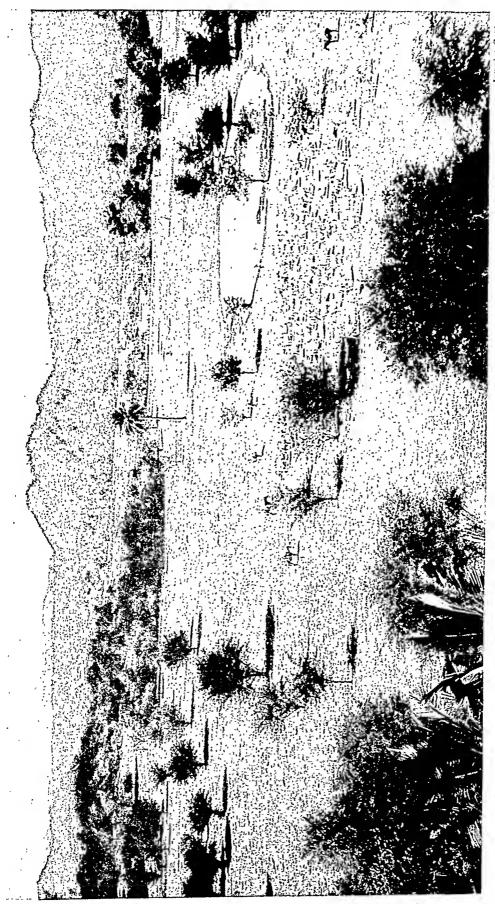
The town of Kingston is spread out on the south-east shore of Jamaica at the head of an excellent landlocked harbour. It is the terminus of several railways, and the well-built, strongly-fortified town, lighted by electricity and with an electric tramway system, carries on a large export and import trade, and since 1872 has been the centre of the country's political and commercial life



ON THE LONG POND SUGAR ESTATE IN THE PARISH OF TRELAWNY
For more than two centures the sugar care was the chief so tree I the wealth of Junuales. Then its
cultivation decined its place being taken by I annan and orange plantations, and before it for fortal War
sugar hal come to be regarded as a minor product. The War however, gave a great impetus
to the industry, and in 1931 better were 53 888 acres under sugar cuse



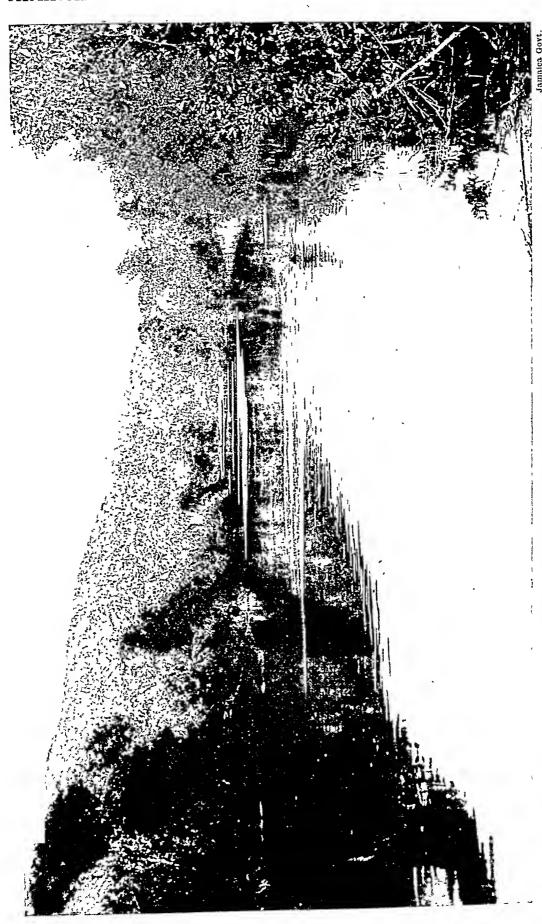
DESERTED SUGAR MILL ON THE BANKS OF THE RIO GRANDO Deserted sugar mis to overgrown with trees and creepers are found here and there in Jamaica. In the photograph bushes can be seen growing out of the top of the chimmey. The Rio Grander issing in the photograph bushes can be seen growing out of the top of the chimmey. The Rio Grander issing in the photograph with the passes the lane from Kingston to Port Antonio.



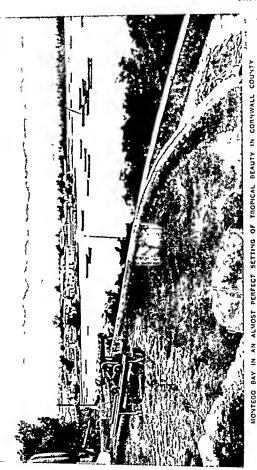
of the animals. There are also plenty of shady glades giving shelter to the calves from the mid-day sun, and on the more level lands there is abundant guinea grass, which is the finest natural feed for fattening eattle. The Indian have the advantage over British breeds in that they do equally well either in the lowlands or the mountains, and will thrive where other eattle would starve and die. The original eattle were introduced by the Spaniards All through the island there are hills covered with rieh pasture and suitable for cattle, since the exercise in climbing the slopes is beneficial to the health and growth LOVELY WOODED, PARK-LIKE COUNTRY AROUND MONTPELIER HERD OF MYSORE CATTLE IN THE

2381 JAMAICA



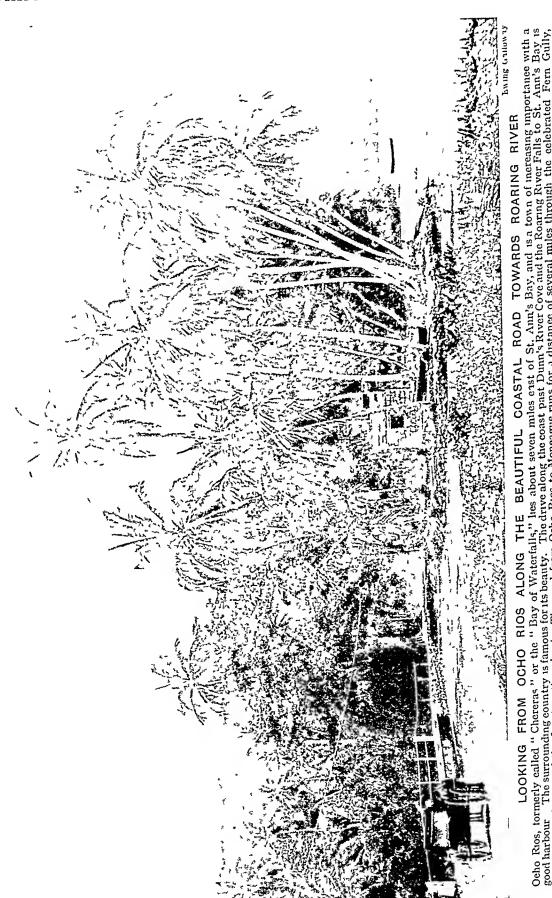


Owing to the great variety of its scenery, Jamaica has often been considered the most beautiful island of the West Indies. Its name is thought to have been derived from an Arawak word signifying "well-watered," and the island certainly contains many rivers, tew or which, nowever, are navigable. The longest of the rivers are the Cabre, Minho and Black, which empty their waters on the south coast; another southern river is the Milk river in Clarendon, famous for its mineral spring of therapeutic value; this warm saline bath has a temperature of 92° F and is efficacious in relieving many allments SPRÍNG MINERAL SECTION OF THE MILK RIVER, A WATERWAY OF JAMAICA FAMED FOR ITS



2383

is concerns with softs of vigar es a man ar Page to a raile gar ta t er al li wella? Nomingo Bay the most important two in the party 14 M. Jases was at a Paral 4 Meser. Buy earliest a laborate and a parallel may be provided in the parallel meser. It was the present that the parallel meser has the parallel meser because the parallel meser has reserted to the parallel meser has reserted to the parallel meser has reserted to the parallel meser has reserved to the parallel meser has been presented to the parallel meser the parallel meser has been presented to the parallel meser the paralle



nous for its beauty. The drive along the coast past Dunn's River Cove and the Roaring River Falls to St. Ann's Bay is a The road from Ocho Rios to Moneague runs for a distance of several miles through the celebrated Fern Gully, which is a ravine filled with the most lovely ferns of every description good harbour The surrounding country is famor considered to be one of the finest in the island

There is a rulway which runs drigon ally through the island with branches on the north side. Wain roads are maintained by the Public Works Department and parochad roads by the parochial boards of the fourteen para hes into which the island is divided. With former and some of the latter are fit for light motor traffic some of them passing over altitudes of 3 000 or 4000 feet. In addition there are a number of brufle tracks in the high lands used by mules donkeys and a few horses.

An electric car line traverses king ton and extends into the neighbourhood in three directions to a distance of about six miles. Two trivers only it used for the carriage of produce and that only in a small degree. Droghus (small vessels cutter or schooner rigged) ply round the coast from port to port. The island is covered by the electric telegraph service in connection with the Post Office and there is a pull be telephone system in operation in kingston. A fruit company has private telephone wires throughout the island.

Problems of Commun cation

There is now good communication by sea with Ingland America and Canada but the lack of inter-communi cation between the islands themselves is a serious bar to the federation of the West Indies to which many of their well wishers look forward. This lack has more tl an once seriously interfered with the holding of inter colonial con ferences which might have proved of great advantage to the West Indies as a whole There is cable communica tion by means of the Direct Cable Company via Bermuda and by tle West Indies and Panama Company There is wireless communication from the land to ships within about 300 miles distance and the station is equipped with the latest receiving instruments

The imports come chiefly from the United States (over 50 per cent) the British Isles and Cunada the last named having of lite years made an

earnest endeavour to arrive at closer trade relationship

De pite a feeling that the Mother Country has not always extended the support it might to the industries of the Island there is a genume desire on the part of the inhabitants to deal with British subjects other in the old country or Canada. But the proximity of the Linted States and the enterprise of its busines a men are serious factors in the case. Thour however which was once imported from the United States now comes almost entirely from Canada.

Rel es of Old Bold Days

The exports go whence the imports come principally to the lanted States the British Isles and Canada but as regards outward trade the producers of Januace have ever been in great the mersure, at the mercy of hostile tanffs.

The casual traveller through Jamuer would hardly realize that it is as thickly populated as it is many of the settlers buts being off the main roads and out of sight hadden by fruit trees which they themselves have planted. In the country is found an occasional old time great house with loopholed with telling of protection against buceaners and here and there are specimens of Georgian unalogian doorways which would not disgrace an I neight manor house.

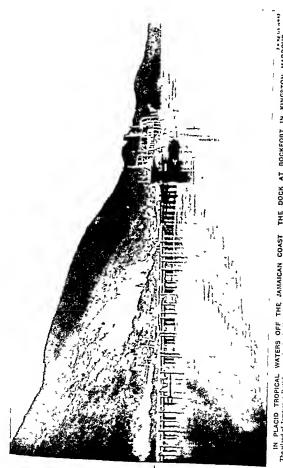
Villages Always on the Move

Village communities are of a somewhat transitory nature following the vicissitudes of cultivation and consequent employment and churches and schools have occasionally been established near small settlements only to find the inhabitants subsequently moving on to other field. Every village has its rum shop a general shop with its neatly proked ranges of shelves and possibly a church

In the smaller towns are added per inps another church more runs shops and general shops a police station and shops for the supply of motor accessories. Fuch purish has its clief town sive two exceptions on the sea const



The canal leads from the famous gorge of the Rio Cobre, known as Bog Walk, which calls to mind a Highland glen. The scenery on either bank is exceedingly beautiful, as fresh vistas of loveliness are revealed to the eye at every bend of the canal. Ferns, among which the maidenhair predominates, flowering ereepers, coconut palms and bamboos line the banks, while here are clumps of rushes reminiscent of England About four miles from Spanish Town is the dam-head of the Rio Cobre Irrigation Canal, which has been constructed to irrigate the fruit and sugar plantations. RUSHING WATER AND FOREST-CLAD HILLS AT THE DAM-HEAD, ON THE RIO COBRE CANAL



white of Jamaca, a Berish possession in the West Index, was discovered by Columbas to May, 1991. Il the also is no relevanted San Daemen, and so the districtive length is still may, and it an antinum breath is with that a 1951 are settlets of 1 versal dependent of the formal and the settlets of 1 are south of 150 and THE DOCK AT

JAMAICA 2388

with a court-house in which are also housed the parochial board, the tax collector and the government savings bank. The constabulary station is hard by. In the main streets are also a few substantial residences.

The English adopted the Spanish capital, St. Jago de la Vega, as their capital and called it Spanish Town. In plan it might have been designed for a The main road which encircles the island goes through the other chief towns in a more or less straight line: through Spanish Town it meanders. Kingston, at the head of the principal harbour, passed Spanish Town in the eighteenth century as a commercial centre by reason of its greater accessibility, and in the middle of the nineteenth became the actual capital, all offices except that which held the records being transferred thither.

After the earthquake of 1692 Kingston was laid out by a competent engineer in a symmetrical manner, but its outlying portions have grown up anyhow.

In the principal suburb around Half-way Tree, in Lower St. Andrew, the old-time pen residences, with their few acres of land, formerly used for providing guinea grass as fodder for buggy horses, are rapidly being displaced by concrete bungalows of American type, with gardens attached full of gorgeous plants.

The great band of planters used to suffer by reason of conditions resulting from the unwillingness of many of their forefathers to accept emancipation in a proper spirit, and by reason of the absence of many proprietors from the island in the past. To-day, however, these social problems are in a fair way to being settled.

In the old days, before quick communication and ocean telegraphy, it was the distance from the Mother Country and a feeling of isolation rather than the actual heat that engendered a certain amount of indifference to the amenities of civilized life amongst the better-class inhabitants; for to-day, as formerly, many white men do a large amount of supervision entailing some physical exertion through the midday sm, and many athletic sports and games are carried on in spite of the heat, which is considerable.

Now that good communications have brought the island into closer touch with the outside world, no such reproach can apply. Jamaicans are fond of music and dancing, and an active social life is developing; education is extremely progressive for so small a country, and an excellent circulating library for a yearly subscription of five shillings will send books to residents all over the island.

JAMAICA: GEOGRAPHICAL SUMMARY

Natural Divisions. An upstanding steep-sided ridge, resting on the deep floor of the Caribbean Sea, a relic of the ancient Antillia. (See Central America.) A jumble of hills and dales without apparent order, or symmetry. Part of an area where the earth's crust is unstable, as evidenced by the frequent earthquakes and the neighbouring volcanoes (Cf. Sicily).

Climate and Vegetation. Tropical temperatures with small variability on the lowlands, cooler but still equable on the uplands. Tropical rains, with two rainy "seasons" about the time of the equinoxes. Tropical forests with some jungle, although much of the original vegetal cover has been cleared. (Cf. Cevion.)

cover has been cleared. (Cf. Ceylon.)

Products. Cane-sugar, bananas and other fruits, ginger, tobacco. Mahogany, cedar, logwood. Coffee, coconuts, cocoa.

Cattle, some Indian zebu cattle (cf. Brazil), horses.

Trade. Half the overseas trade is with the United States, as the nearest great state; most of the rest is with the British Isles and Canada. Canada is reviving an ancient trade with the island which can supply to Canada foodstuffs which Canada cannot produce.

which Canada cannot produce.

Outlook. Jamaica is at the mercy of world price movements. During times of shortage Jamaica has been an important source of supply of cotton, canesugar and tropical fruits. The plantation industry flourishes when other sources of supply are restricted. The future rests with the capitalist exploiter who can organize the main plantations so that they may compete more effectively in the world's markets. Large scale operations seem essential. (Cf. Mauritius.)



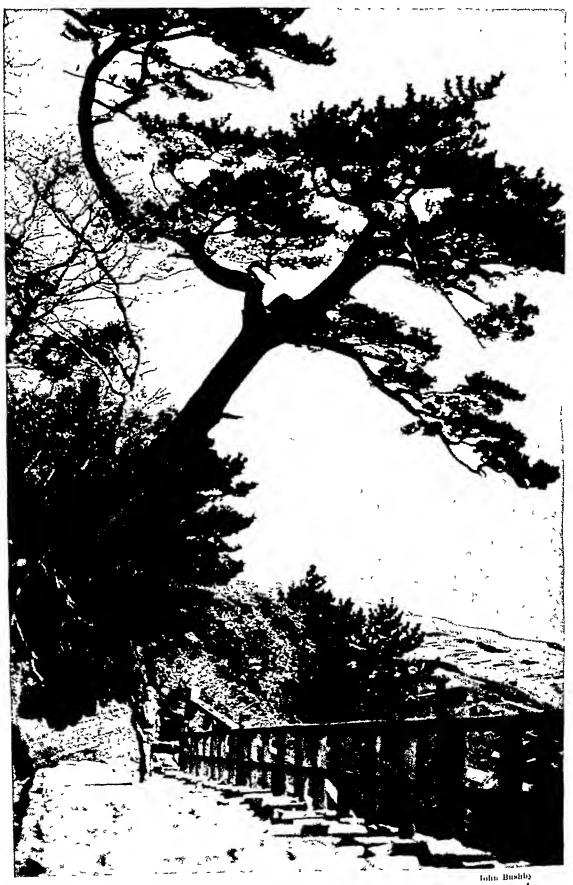
JANAN In the precincts of Noful up temple near Kobe this great bronze Buildha sits cross legged in perpetual contemplation 2389



In this cemetery near Kyoto the Japanese have achieved an effect very popular with them, a picture of cryptomerias with an ornamental doorway for frame. The tall stone slabs are memorials J.NPAN.



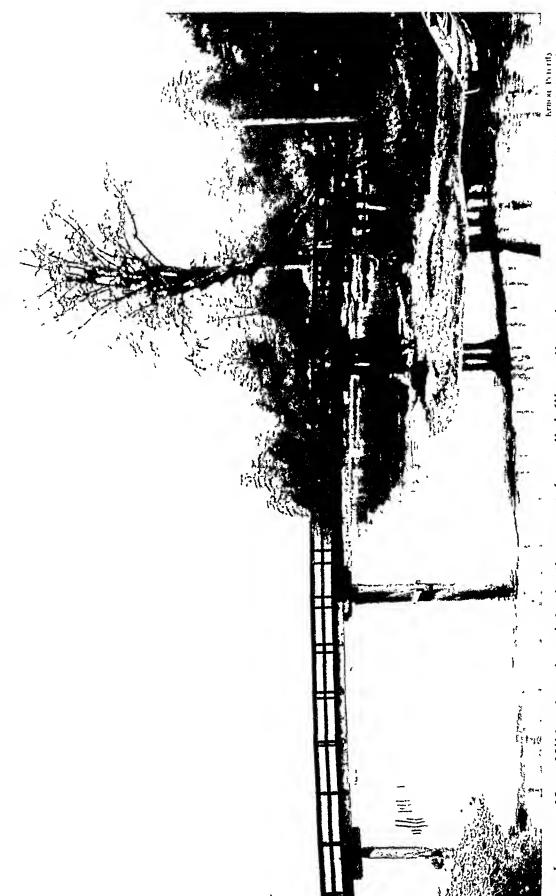
JACAS — The temples of Nava-unar Krobo stand in a beautiful park—Through this goes an accune between great dark ersplomerias and paire of stone fauterius chere dere solvent food from the visiter



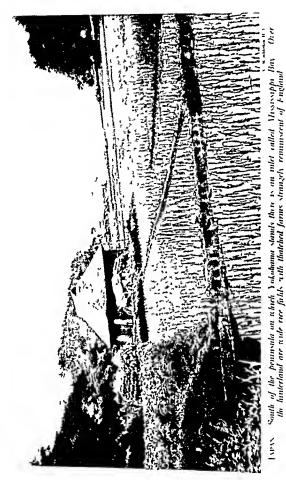
JAPAN. After climbing 1,000 steps the pilgrim nears the temples at the summit of Kunozan, and an aged pine sighs in the sea wind 2392



JAPAN Kyoto folk climb to the Kryomizu-dera temples to supamong the cherry blossom or be merry under the autumn moon 2393



JAPAN. Near Nikko there is a lake in the mountains called Chucenji. A stream flows through it and by the shore is a village, peaceful save when visited by about 10,000 pilgrims for a few summer days





JAPAN. Miyajima, the holy isle and bourne of pilgrims in Hiroshima Bay, has its courtyards flooded at high tide, and its temples are raised on piles. The dragon, looping its armoured throat, keeps the cistern filled

IAPAN

Ridge that Rises from the Deepest Sea

by J. W. Robertson Scott

Author of . The Loun latio is of Japan Cooo Miles in the Rural Districts etc

TIL quick movement of Japan out of the Middle Ages into the position of a Great Power is one of the most interesting things in history

There is no country in the weill as remote to-day from it odern civilization as Japan was in the middle of the nine teenth century. The imagination of the peoples of the West has been captured by the tales of an ancient endiration different from anything of which they have led experience by the illuring art and handscrafts of Japan live the beauties of the country it alf and by the gallant air of the Japanese race. When tales of the Samurai when the glories of the Innanese art when the engaging novelty of the daily life of Japan when the story of the extraordinary turning away from old trethods of covernment and social usage might have palled there came the surprise to most Westernersfirst of victories over China and Russia then of the remarkable multars and naval development which Inpan lind reached by the time of the war with Germany, and finally, of her jump to the position of the third greatest navil power And then Japan came into the hmelight agam with an earthquike and a fire which cost her an incredible sum

Barrier of a Difficult Toneue

It is natural that Japan should have been both overpraised and underpraised Although countless books have been written about Japan the country is still 11 000 miles away and Japanese thought and feeling clude us in the haze of a troublesome language which few foreigners have mastered

But every day Japan comes nearer When the Siberian route is reason ably efficient she will be only about a Copyrighted in U.S.A. 1923 by The Amalgamated Press (1922) Limited Deo

When the amman's forting by distant hich helds she is not more than a handred flying hours off

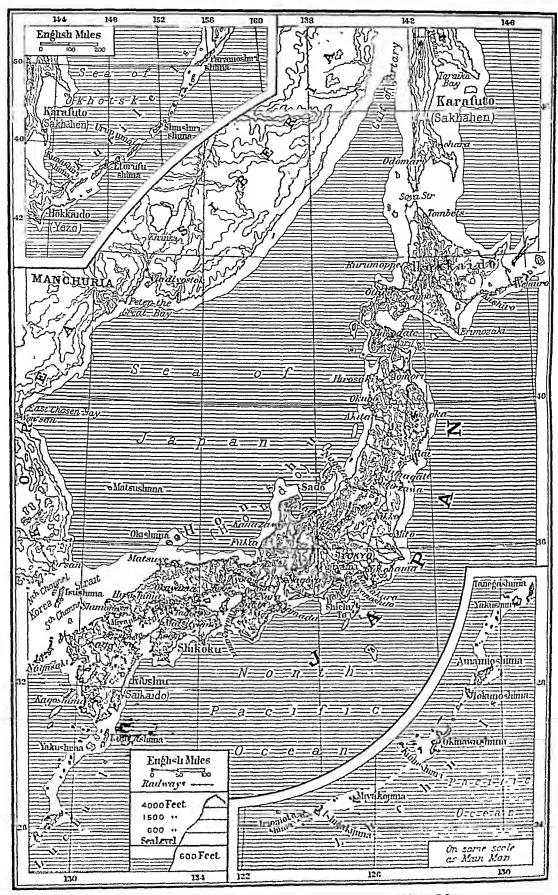
I man is already closer physically than shar mentally. The world knows the unit red expression of Japan, the arms and navy of which we have spoken the remarkal 1 mercantile marine the development of industry and trade in competition with other rations pairst it me difformers, the triumphant bure meries but the Inomese mind is little I nown

Lour Larthquakes a Day

Inst let us get some basis of know 1 dec about the country

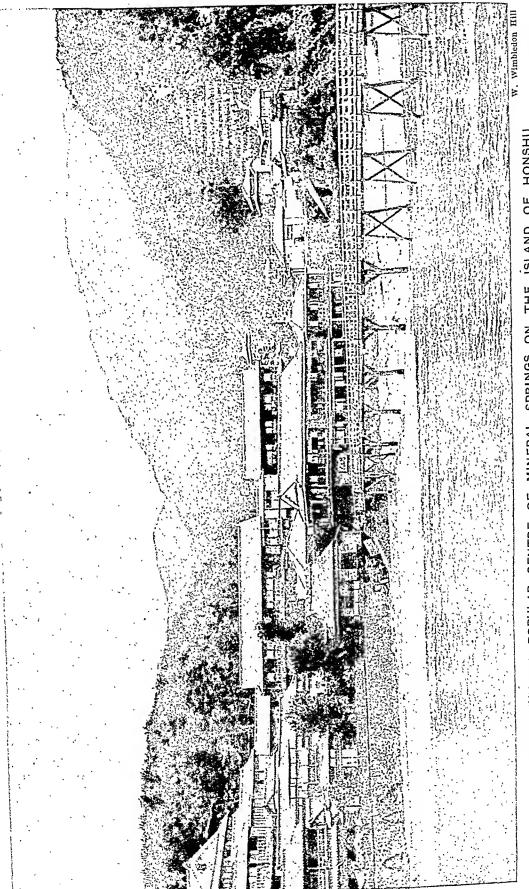
The Japanese people live on a ridge in the Pacific which sloves rapidly down mto the greatest depth to be found in the An average of four mere or less perceptible carthquakes a day reminds them of their insecure hold on the world Tapan proper consists of a main island three other large islands in sight of the main island, and four thousand or more islets. The main a land Honslin with Shikoku behind it lies off the coast of Lores The next largest and northern most island Hokkaido (Yezo) is off the coast of Silveria The other large island and the southernmost Kinshin is off the coast of China 500 miles from the mouth of the Yang tsc, indeed a popular belief is that the sands of Kiushin conic from China

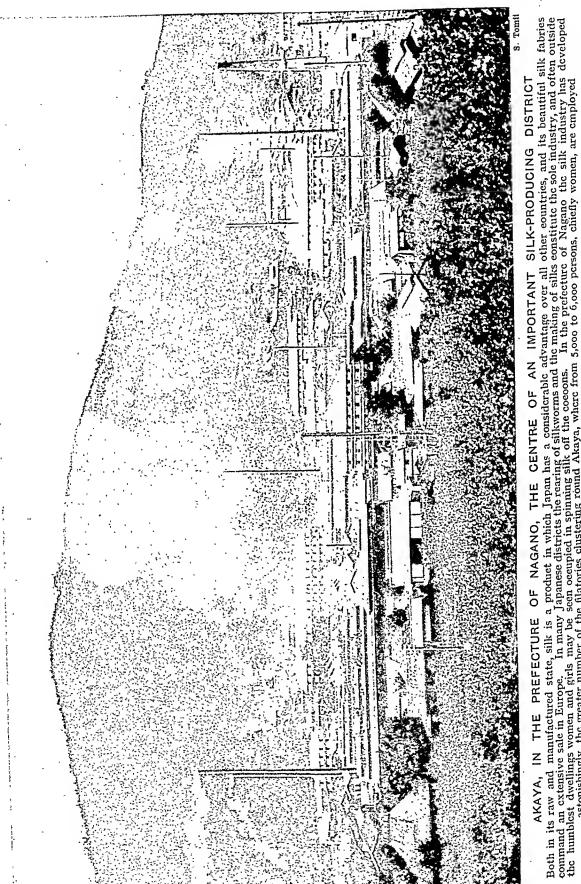
The area of all this territory that is of Japan before the acquirement of Lormosa Korea southern Sakhahen and part of Manchurra is about 142 000 square miles This is about as big as Great Britain would be if there was not one Wales but four The area is about one per cent of the area of Asia

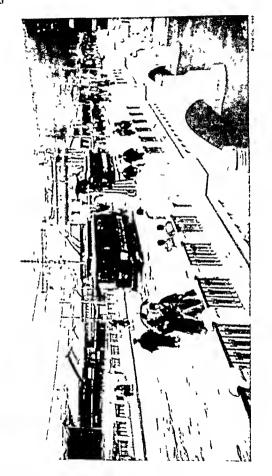


JAPAN'S ARCHIPELAGO OF FAR-FLUNG ISLANDS









The main island, Honshu, is about the size of Great Britain. The northern island, Hokkaido, is a little less than Scotland Kiushiu is about half the size of Ireland. Shikoku has an area almost equal to that of Wales.

The general appearance of Japan has been thus described by Longford: "None of the mountains are covered with eternal snow, but they are everywhere, outside the few great plains, rising, some in gradual slopes, some in abrupt precipices from the shores of the sea, alternating with narrow, deep and precipitous valleys, studded with evergreen trees, whose foliage, with its varying tints through the change of seasons, gives infinite charm to the whole land."

The highest mountain is Fujiyama, 12,390 feet. The longest rivers are the Ishikari, the Tone and the Shinano; and the largest lake is called Biwa and is 180 miles in circumference. The tamous Inland Sea, between the island of Shikoku and the mainland, is an island-studded area of 1,325 square

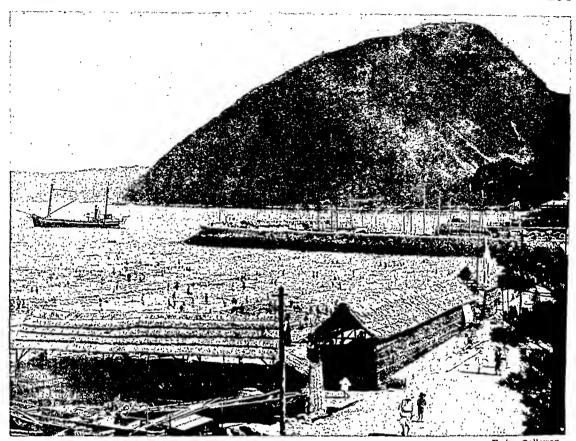
miles of rare beauty. All the openings are so narrow that it can be easily defended.

There are two wet seasons, the first lasting from the middle of June to the beginning of July, while the second is from the beginning of September to the first days of October. Japan is one of the rainiest countries in the world, the average fall for all Japan being about 62 inches per year. There are roughly four sunny days to every three of rain or snow. The country is at once hotter, colder and more humid than Great Britain. It is commonly described as a paradise for children, but life in Japan is apt to affect the nerves of adults who are not careful to get enough exercise and change. The average temperatures recorded in Tokio are as follows: January, 34.9° F.; April, 53°; August, 79°; October, 60.8°; December, 39°. Typhoons occur usually between June and October. A typical and severe typhoon was that of 1917, when the maximum velocity was as great as 130 feet per second. One

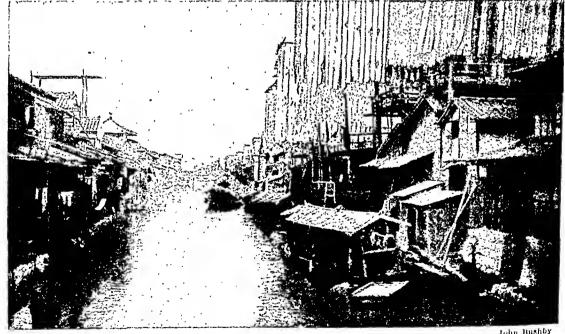


HUTS OF HONSHU NATIVES ENGAGED IN THE FRESH-WATER FISHERY Fish being one of the main staples of Japanese daily food, it is not surprising that the fisheries form an important national industry which ranks next to agriculture. Some 600 species of marine fish are known in Japanese waters, and many of the rivers and lakes contain abundant life, carp, trout, eel, lamprey, gudgeon, barbel and roach being among the commonest fresh-water species





Ewing Galloway HOT SAND CURE FOR RHEUMATISM AT THE HEALTH RESORT OF BEPPU
The hot spring figures prominently among the gifts that nature has bestowed on Japan. A short
distance from the busy town of Oita, on the island of Kiushiu, is Beppu, a port of call for steamers,
famous for its hot baths which attract large numbers of visitors; the entire ground of the semicircular
beach flanking the bay being undermined by hot water and volcanic vapours



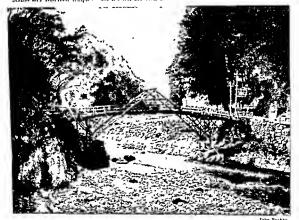
John Bushby

CANAL SCENE IN THE WEALTHY COMMERCIAL CITY OF OSAKA Osaka, an important commercial and manufacturing city in Honshu, at the head of Osaka Bay, covers an area of eight square miles and has an estimated population of 1,253,000. It lies on the Yodogawa, and is also intersected by numerous canals. In its 7,000 odd factories textiles, iron and metal goods, leather goods, glassware, confectionery, patent medicines and ships are produced

JAPAN

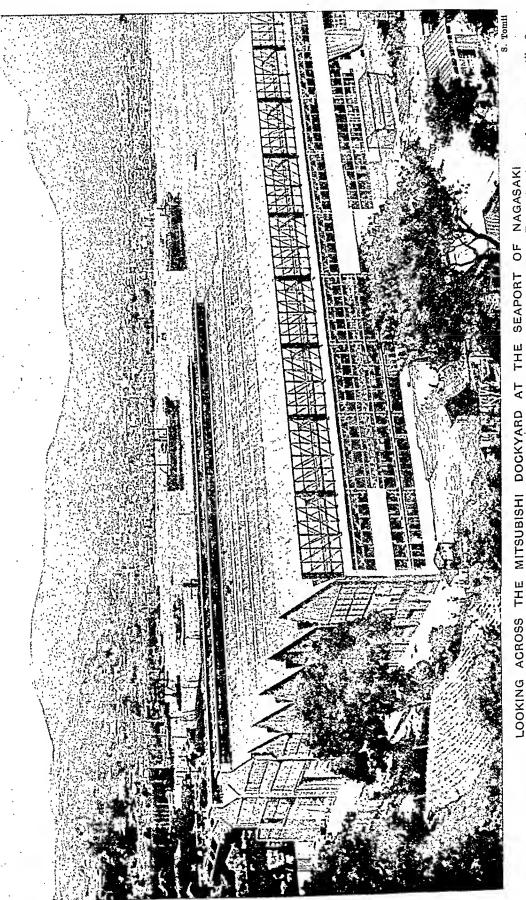


DIGNIFIED APPROACH TO A SECLUDED BUDOHIST SHRINE NEAR KYOTO
The Japanese profess two rehams, Shintown and Bud Jishu which, however, are not anticonistic
The-shinto lattic steep routed in the beart of the natu at the pantheon of shinto goes and goldesee
comprising him feels off thousants and much beautiful work is Tuythed, in the building of Shinto and Bud that temples. On the left are sent the store functions which are volue offernis



SACRED BRIDGE AT MIKKO, A RELIGIOUS CENTRE OF JAPAN

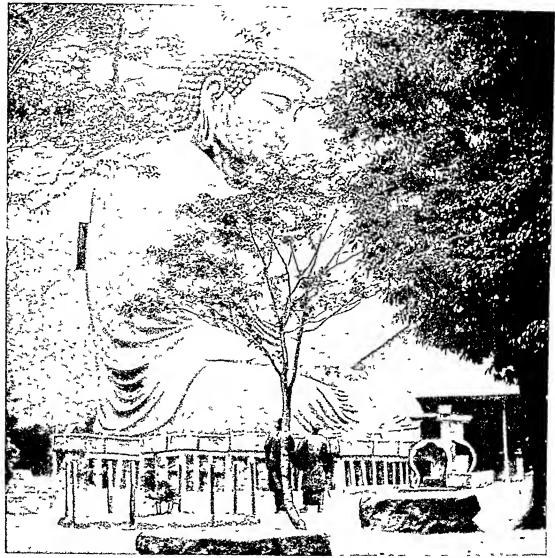
Many buildreds of Japanere usat Nikko annually to worship at the ancreat altars, for the district, which is writered by the Dryagawa is renowned for its numerous temples and for the tombs of the Shogun emperors. It has liberers would rimily attractive mountain scenery, with pecks ranging from 5,000 to 8,000 teel in height. The tom is about 50 miles by rail neith of Took



Nagasaki stands on an excellent natural harbour on the west coast of the island of Kiushiu, three miles from the sea. From the sixteenth century until 1859, when Japan was opened to foreign trade, Nagasaki held the monopoly of European trade, and although many other towns have superseded it in importance it is still a great commercial centre. The slopes of the hills behind the town are studded with private residences; on the opposite side of the harbour are large engine works, also extensive doeks which belong to the Mitsubishi Company, or the Company of the Three Diamonds, a great shipping concern



ake Shoji lying 3 iso feet ala ne jea level and a na fant athing in similee shalling in white a la variety flows had no a fight ear engles from ON THE BANKS OF SHOJI, ONE OF THE SUPERS LAKES THAT ENCIRCLE FUJIYAMA



COLOSSAL EMBODIMENT IN BRONZE OF THE FOUNDER OF BUDDHISM Of the numerous shrines at Kamakura, a historic site some 12 miles south-west of Yokohama, one of the chief is the Daibutsu, or gigantic bronze image of Buddha This "statue solid-set, and moulded in colossal calm" is 50 feet high. The great carthquake of 1923 did no harm to the image, but damaged the base, which is here seen braced with heavy supports.

Miyanoshita in the mountains is famed for Hakone, beautiful views and historical associations. Then there is Kyoto, the seat of the imperial government for 1,000 years, with its palaces, temples, places of natural beauty, dancing and joyous excursions. At Nara one may see wonderful buildings and objects of art and the famous deer park.

Kobe had, before the great earthquake, outdistanced Yokohama in its volume of foreign trade, and Miyajima is one of the three famous sights of Japan. The temple "torii," standing in the sea and with cross-beams more than 70 feet long, is a delight The sacred dances are supposed to be a thousand years old.

The time to visit Japan is in spring, the season of cherry and plum blossoms, or autumn with its splendour of foliage. The summer is spent in the hills where it is cool. Spring lasts from the middle of March to the middle of June: summer from the middle of June to the middle of September; autumn from mid-September to December, and winter from the middle of December to March.

Hakodate is in Hokkaido where the snow hes for three months and the aboriginal "hairy Ainu" survives There is a naval station at Kure and Sendar



SECTION OF OKAYAMA'S CHARMING AND CELEBRATED PLEASAUNCE The bords on Cardino of last at Okasama excessione clarges and his none (the formal aspect of the usual Japanose pile garlen. In piliakes sten er briders a will lus mance of clerry and pin areas iloud reducing the agent to pin and rest distributions and the clargest distribution of the pin areas in the cardino and the pin areas the pin



SHINTO SYMBOLISM ON THE SHORES OF LAKE HAKONE Hakone the watering place on the island of House 1 is 1 elf repuented for its thermal springs and its pictures que lake vier at he and boat up form the chef attract ons. The lake lies at an altitude of over 2 doo feet and a three mile in limit by one mile broad. The For or gate any seen above with a stone lantern on a eller side is a religious symbol connected vist his highly and the side of the sid

has memories of a great daimio. Matsushima's scenic beauties are within a few miles. With Kagoshima were associated two great Japanese, Saigo and Okubo. This is the place that was bombarded by the British in 1863. And lastly there is Sapporo, the capital of Hokkaido, an American-looking city with a university.

A Land of Abundant Rain

"The mild climate and abundant rainfall," says an official publication, "stimulate a luxurious forest growth" -467,000,000 acres—"which in turn provide ample fountain-heads for rivers. The rivers and streams run in all directions, affording opportunity for irrigation all over the country. The insular position of the country renders its humidity high and its rainfall abundant compared with continental countries. The rainy season prevails during June and July, making this season risky for the harvest of wheat and barley; on the other hand, it affords a beneficent irrigation supply to paddy-grown rice, the most important crop. The characteristic feature of the climate in the greater part of the islands is the frequency of storms in the months of August and September." A favourite time for tourists is the plum and cherry blossom season of spring. The Japanese climate is trying to foreigners in the wet season, when mould invades their possessions and the covers come off books. The heat drives most foreigners to hill resorts.

Three Acres to a Family

Japan is primarily an agricultural country. Something of the problem of food production with which she is confronted may be understood from the fact that while the area of Japan proper is less than a twentieth of the area of the United States, the Japanese population is more than half that of the United States. Some 5,500,000 families cultivate holdings of 15,000,000 acres or a little under three acres per family. Even in northern Hokkaido the average

area per family does not rise beyond seven and a half acres. More than half the cultivated area is given to the most laboriously cultivated of field crops, rice. When by a peaceful revolution the daimios yielded up their lands to the emperor, the title deeds of farms were given to the men in possession. Inevitable private readjustments followed in a period of extraordinary social changes.

After rice, silk is the chief rural industry. Then comes tea. The fact that the United States is Japan's best customer for silk and tea is, with the elephant-and-whale-like inaccessibility of the two countries one to another, the chief argument for peace between Japanese and Americans. Japan produces 40 per cent. of the world's silk. The agriculture of Japan, into which animal power and modern implements have entered but little owing to the small patches in which rice is mostly cultivated, is exceptionally Immense quantities of artificial manure are used, but human waste and compost are the chief standby. There has been a creditable improvement in methods and a steady rise in the rate of production. Agricultural colleges abound.

Comforts for the Traveller

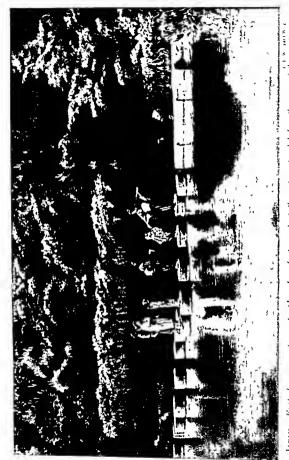
The way of the stranger is made easy in Japan. There are many up-to-date hotels, the railway arrangements are efficient and English goes far. At the least importance stations of luncheon boxes, tea and hot milk are brought on sale to the carriage windows. As the Japanese delight in holiday trips, the traveller is catered for in every part of the country, and is always safe. Mountain climbers have not only the beauteous Fuji and the volcanoes but the Japanese Alps. Apart from the delights of walking, rickshaw and motor riding there is Japanese art which may be studied in temples and shrines in every province as well as in the museums. Rice culture, if smelly, is interesting. So is silk, tea and orange cultivation. In the cities there is the old drama, one of the best things Japan has to offer her



Out of the thinning wells of mist the single lights a brol en cone shippled with snow—Fuji the incomparable JAPAN

2413

John Bushby f the Shinto MANN. When the flood-tide comes lapping about the temple at Miyajima, the torii, sacred gateroay of



JAPAN. Kyoto has many strange temples almos funtusies heep the supermatural before the execut their cotaries but everywhere there are gardens with nater and bright blossoms where the pilgrum may contemplate



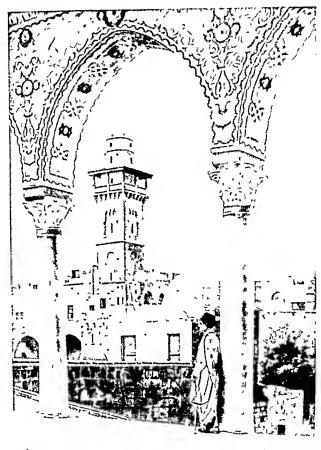
JAPAN. Peaceful waters, a view of mountains and the waiting fisherman symbolise beautiful Miyajima, so holy that none are allowed to die there



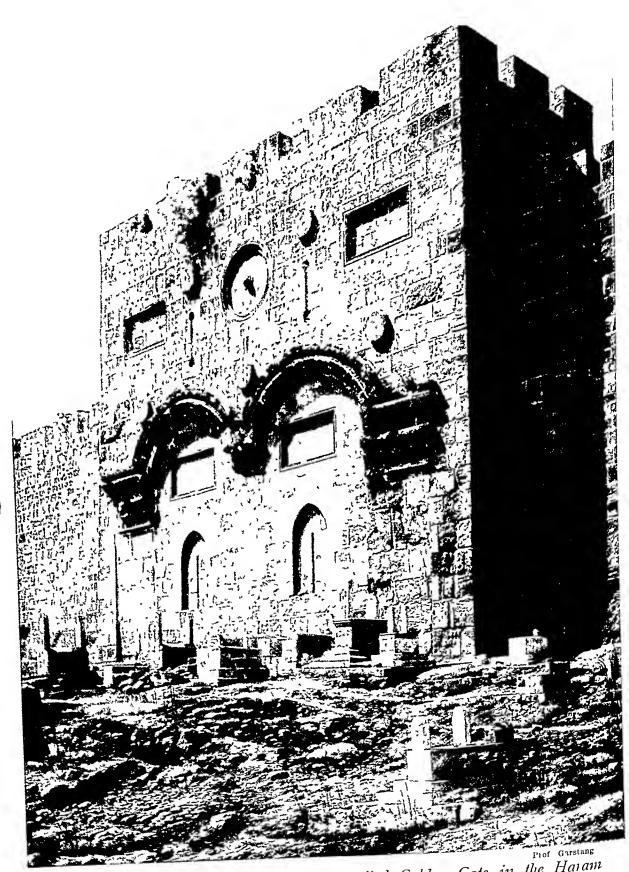
JAPAN Yasala Pagoda, raising its curring cases fixe storys high among the galaxy of temples about K30to was built in 1618



JAPAN. There are no fairer gardens than those in Japan, nor any laid on with more art in leaving nature to attain her own unlaboured bounds



JIRUSALIM II here once the Temple stood there is a mosque, the Kubbet es Sal hra I has areade abo c one of its cestern stair cays o erloof s the city



JERUSALEM. Bab ed-Dahiriya, the so-called Golden Gate in the Haram wall closed up by the Arabs, shows its blind archways to the sunrise

visitors, and the "No" plays. The police, if a little paternal and at times officious, are civil. The general politeness and cleinhuess of the people make

a pleasant impression

The advance of an industrialism that has learnt little from the latter Western experience which the labours of Lord Shaftesbury and his successors have caused the prescut generation to forget, has produced slums in Tokyo, O aka and other cities; and inbru labour and rural labour have organized There is a wide demand for in unions universal suffrage, which does not always take account of the widespread lack of interest in public questions and of the very low monetary limit of the present qualification for a vote is still ruled by its bure meracy -a remarkably skilled bure incracy-rather than by Pathament Ilut the political development of the country advances, and the most vocal sections of the community will not be content until Western forms of democratic government have been fully adopted

Prescination of Womenkind

Women, kept so much in the background in Japan, have played a more valuable part in her life than most foreigners unagine, and are still largely the keepers of the purse-strings and the counsellors. In the last few years liberty to play some part in life outside the house has been given or has been seized on by women to an extent which amazes Japanese grandfathers. In the main it is a movement in a helpful direction barring woman from modern education and from her just share in the direction of work for the public good Japan tied one of her hands behind her back. She is now gaining the use of both hands with marked advantage

There are aspects of the relations of the sexes in which Japan has come in for criticism from many foreigners, who did not always remember the moral shortcomings of their own countries. There has seemed to be in Japan a certain callousness Undoubtefly

Japanese have shone more in family and clan relationships and in their devotion to the emperor than in their relations with the rest of the Japanese people There has been need of cultivating a sense of duty to all men and women When the Japanese had only began to make some of their obligations to men and winner of their own race there could be an surprise on finding that in international relationships their behas your sometimes seemed to suggest an mubility to see any other than their own point of view. It was many years before any considerable number of Inpunese was able to understand something of the reasons which made Americans and Australians unwilling to admit Inpinese immigrants

Problems of Yellow and White

It is hard, no doubt, for the people of a country which ranks as a Great Power to have their rights of foreign travel The Japanese see Australia lunited as a country which, but for the closing of Japan by the Tokugawas might have been theirs. Asiatics may be different from Occidentals, they say, but they are not inferior. To the resolution to maintain a white America and a white Australia they naturally oppose the claun that Asia-especially their own corner, the China corner-should be preserved for the Asiaties, especially their own kind of Asiatics

Bonds between Japan and China

Geographically, Japan lies in the relatiniship to Asia that Great Britain occupies towards the continent of Europe To understand how the mind of Japan works one has to try to put oneself geographically in her place There is a bond between Japan and China greater than the bond which unites freat Britain to any nation of the Continent But, as the Great War showed, what happens to the states whose territory has opposite one's own is not a matter of indifference. The coal and iron, the general trade and cooperation of China—in which over a quarter of a million Japanese live—are necessary to Japan. Japan has amended many of her old oppressive ways with China. A measure of China's friendship and confidence may yet be gained. In any event, Japan must always know more about China than Europe or America can know. And the notion that any Western powers, circumstanced as they are at home and thousands of miles from Japan, can force Japan to yield a jot of what she believes to be her interests in China or can use military or naval force against Japan is visionary. Most Western powers now realize this.

Moreover the wisest heads in Japan are in no doubt whatever of the futility of an armed struggle with the West. But militarism does not quickly yield its influence with a nation whose place in the sun seems to have been gained by armaments. Nor can Japanese politicians and economists be expected easily to let go the fallacies under the stress of which Western powers have made their greatest international mistakes. Japan is wasting much of her

substance on that which is not bread. she has notions which are as out of date as they are dangerous; but, in a troubled world, her fears and dreams are easy to account for. As Europe puts her own house in order, as the situation clears in India, as America gives profounder study to oversea questions and as a more neighbourly spirit develops in the world at large, Japan will become less and less of a bugbear. A constant criticism of Japan is that she is an imitator; but what country is not an imitator? As other countries' thoughts become more tranquil, Japan may feel the talk of her men-at-arms jar. She has not reached her present position without a considerable display of common sense and self-sacrifice.

The period in which Japan was crippled by the losses of the great earthquake was a providential period affording an opportunity for the white world sincerely to apply itself to the formulation of a just and, therefore, wise policy towards the Japanese and the yellow world in general.

JAPAN: GEOGRAPHICAL' SUMMARY

Natural Divisions. An archipelago, the summits of a submerged ridge, making a typical festoon off the east coast of Asia. The eastern edge of the ancient Angaraland. High peaks and ridges with steep narrow valleys submerged at their lower ends, few alluvial flats or plains. A volcanic area, part of the "ring of fire" round the Pacific Ocean. Climate. Situated entirely south of lat. 50° N., Japan resembles Newfoundland in latitude and location on the east

Climate. Situated entirely south of lat. 50° N., Japan resembles Newfoundland in latitude and location on the east coast of a temperate continental landmass, in the "Black Stream" which corresponds to the "Gulf Stream"; both are examples of the East Coast marginal temperate climate. With winter snows and severe frosts—e.g., in Hokkaido—with heavy rainfall and fog-girt coasts, with short pleasant summers and delightful springtimes, Japan, though nearer the Equator, has a more extreme climate than Great Britain, with colder winters and hotter summers.

Vegetation. By nature forested (cf. Newfoundland); the forest and the absence of lowland preclude the growth of natural grasses. Cultivation is by horticulture.

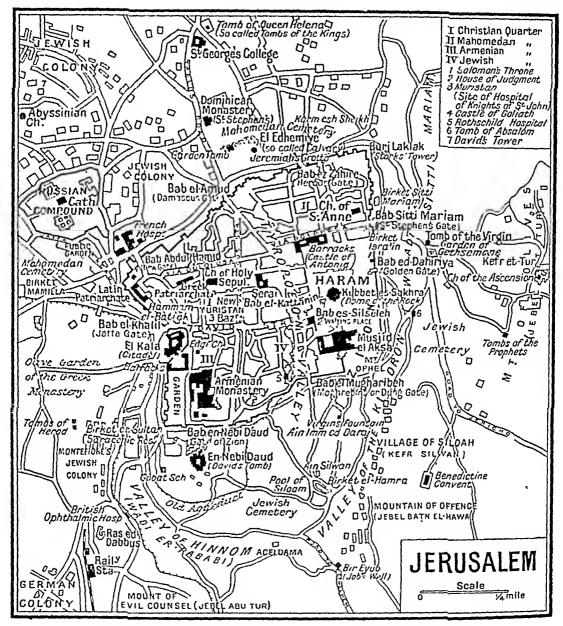
Products. Rice, generally of high quality for export, in exchange for a greater bulk of a poorer quality. Silk,

tea. Objets d'art in porcelain, pottery, enamel and metal. Indigenous products these, all typifying the necessity for much labour to be expended on a commodity of small bulk. Textiles and metal goods as a consequence of the imitation of Western Europe, from a giant battleship to a tiny piece of rich silk.

Communications. Outlying districts are reached by coasting vessels or by road. Ferry services between the islands, especially across the Inland Sea. Increasingly widespread network of railways and roads. Tramp steamers and established cargo and passenger liners on the world's main trade routes.

Outlook. Japan has one of the densest populations in the world; only a fraction of the land being habitable and cultivable. Perforce Japan desires to expand into lands overseas. The people have an inheritance which makes it easy to concentrate much labour on small objects—even, for example, a garden with miniature trees, lakes and hills, a landscape in little. Japan has earned a commanding place, particularly in the Eastern world, and her future must rest in cooperation with the other Great Powers in the exchange of commodities, ideas and ideals.

JERUSALEM Walls and Ways of the Holy City by G. Horsfield



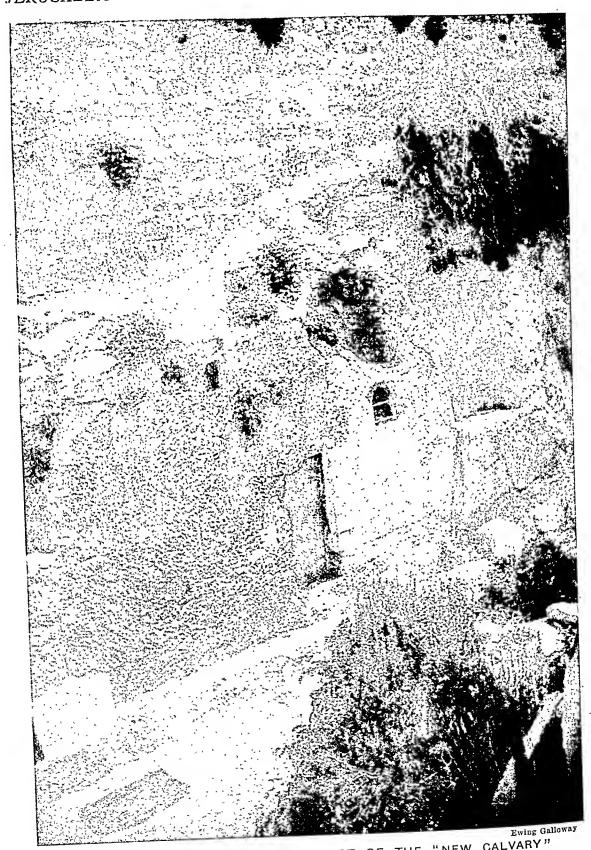
PLAN OF OLD JERUSALEM AND ITS NEWER SUBURBS

approached by flights of steps from the four points of the compass, is the paved platform on which reposes the Dome of the Rock. Flat tiled walls, above the marble sheathing, confront the visitor, while a door and enclosed porch face each flight of steps. Blue is the predominating colour; white, yellow and red are used sparingly, nor is the blue all of one shade; it ranges from cobalt to turquoise, presenting a different contrast at each step taken.

Inside is peace—the peace of Allah. The interior is rich and sombre, glittering with mosaics and all that wealth, art

Dark green and culture can provide. monolithic columns support the dome, and coloured glass cunningly set in wide A screen of panels fills the windows. hammered iron-work, yellow-painted pointed with lilies, lies between the columns, like the rejas of the Spanish cathedrals, but having no straight lines Underfoot are save the supports. Here is no carpets rich and thick. collection of warring religions; no one passes, no fuss or flurry, but only peace. It is the loveliest thing in Jerusalemnay, the one lovely thing in Jerusalem. Nothing remains of the Temple above





THE ROCK-HEWN TOMB AT THE FOOT OF THE "NEW CALVARY"

Various sacred places associated with the life of Christ have been localised by centuries of tradition.

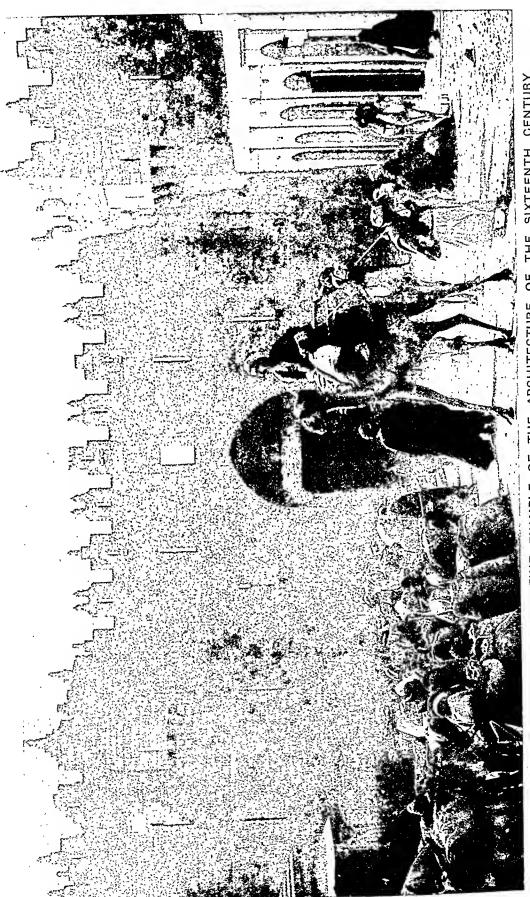
The claims of the traditional Golgotha as the scene of the Crucifixion and Burial are not, however, always supported, and near Jeremiah's Grotto, north of Jerusalem, is the site known as "Gordon's always supported, and near Jeremiah's Grotto, north of Jerusalem, is the site known as "Gordon's Calvary," with a tomb hewn in the rock which some believe to be the actual grave of Jesus



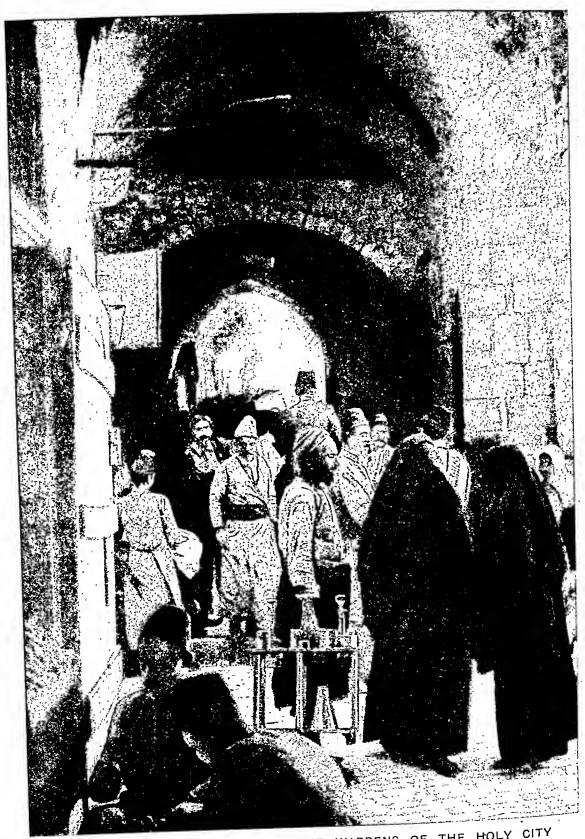
THROUGH ONE OF JERUSALEMS NARROW TORTUOUS WAYS

Countless treets alleys and bazaars intersect the city of Jer salem the older parts of which a wo
been raised upon the deb to of previous cities liere the cites of Da di Herod and the Cursulers

1 e buried in successive strats Tormely many of the narrow thorough fares ere malodoro s with
squived and fill but san tary and hygenic cond to not alway improved under Birt is handate

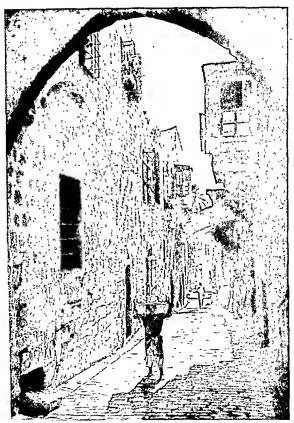


and is some 40 feet in height and 21 miles in length. There are no fewer than thirty-four towers and eight gates; of the latter the four principal, which face the The Damaseus Gate is perhaps the most interesting of all Jerusalem's pieturesque gateways, with its two massive towers and battlements The existing encircling wall of Jerusalem, the fourth wall according to many historians, dates from the reign of Solyman the Magnificent in the sixteenth century, faffa Gates, on the north, south, east and west sides respectively, each possessing a distinct architectural SIXTEENTH CENTURY OF THE THE ARCHITECTURE WITHIN THE DAMASCUS GATE, A FINE EXAMPLE eardinal points, are the Damascus, style of its own. The Damaseus



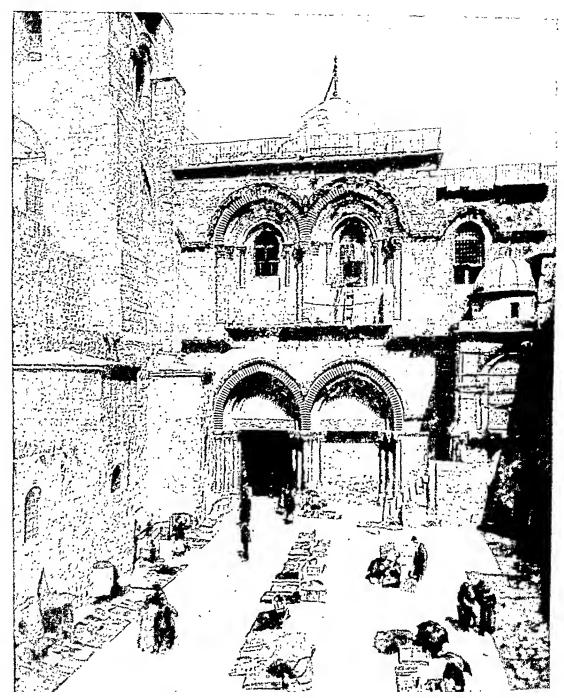
JOSTLING CROWDS IN ONE OF THE WARRENS OF THE HOLY CITY

Most of the chief bazaars are to be found in and about the Muristan, but few are attractive from an architectural point of view. Some of the most important are under vaulted arcades, such as the passage-way seen above which is part of the vaulted-over portion of David Street or Bazaar Street The stalls, though quaint and Oriental, are not likely to attract many European purchasers



JERUSALEM STREET OF SUPREME INTEREST TO CHRISTIAN VISITORS

The boltones extends from the Holy Sepulchre to the Castle of Antonia. Along this "street of pain" it is said that Christ carried the Cross to Golgotha; the assumed stations of the Cross, fourteen in number, being indicated by tablets. The section seen above is near the sixth station, where the legend runs that the marked cot S. Veronica's handkerchief took place

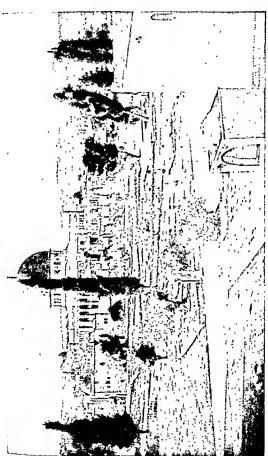




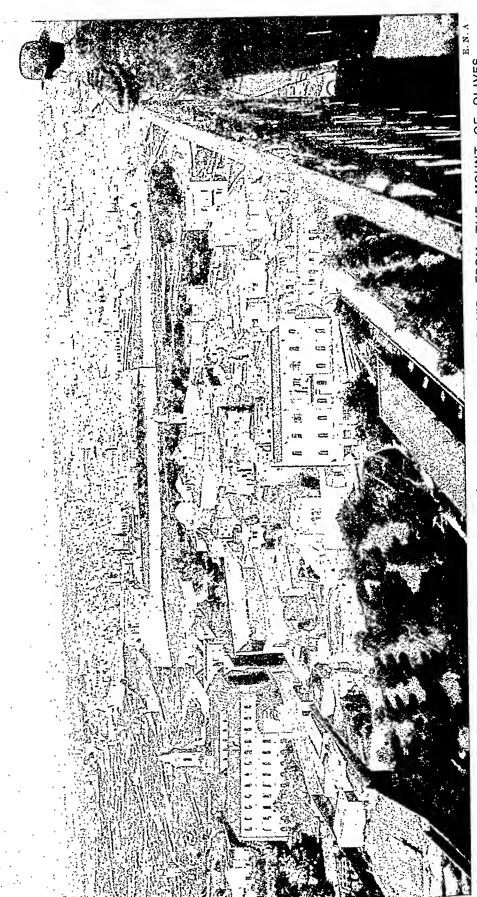
Darely six miles cough west of Jerusalem lies Bethiehem the modern Beit Lahm, birthplace of Christ and king Dasid. Between this City of Divid and the Holy City, and entering the latter or the west by the Jaffa Grie, must a good on which carriages and motor buses ply dally, Pasting on the way many traditional seried sites, including Kychel's Jomb and David a Well



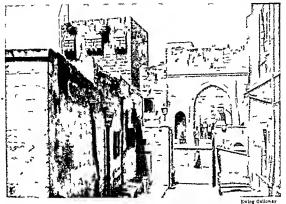
of 12-69 feet above sea-level, 33 miles from the Mediterranean Sea and 15 miles from the Dead Sea. Surrounded by stout walls and deep ravines, the city sequalor and the charm of the Orient, but modern buildings have arisen without the walls, especially in the west where a new quarter is steadily growing; and the charm of the Orient, but modern buildings have arisen without the walls, especially in the west where a new quarter is steadily growing; and an incongruous note is struck by these patches of modern life on a groundwork of antiquity A mountain city, situated in the heart of the "hill country," Jerusalem was well suited for a national capital, lying almost in the centre of Palestine at an altitude



the prioring building is the Dome of the Rock, Kabbet es-Sakhar, commonly but circaeously known is (10 Moyne of Ornir 11 IA a ruzzilder) certained from the abundance of the most activated building the standard behavior at the standard prioring the bright lighted of they are also believed the security of the world, and the street boulder which frenches is thought to eithe traditional after of build exercite on world, and the street boulder which frenches is thought to eithe traditional after of build exercite on the street buildings of the standard after of buildings on the street buildings of the st GROUP OF MOSLEM FANES DOMINATED BY THE MAJESTIC in the Haram el-Shenf, or Temple area, which occupies the reputed site of the C



It is built on the eastern slope Kidron and Hinnom; its actual To Jew, Christian and Mahomedan Jerusalem is the Holy City, and for about 3,000 years it has been the chief city of Palestine. It is built on the eastern slope of the Judean watershed and occupies a plateau with two spurs pointing in a southerly direction, bounded by the valleys of Kidron and Hinnom; its actual site being also marked by several elevations and depressions. From the Mount of Olives which overlooks Jerusalem from the east, the ancient city as well as many sites associated with scenes from Bible stories are seen spread out in an historie panorama. This view is from the tower of the Russian buildings THE MOUNT OF OLIVES FROM OF KING DAVID, LOOKING WESTWARDS OVER JERUSALEM, THE ROYAL CITY



MASSIVE MASONRY OF JERUSALEM'S WAR SCARRED CITADEL

On the south eastern side of the Jaffa Gate the west entrance to Jerusaledt rises the citadel which in its present form dates principally from the beginning of the fourteenth century. The oldest part of it is the north-eastern tower built by the Crusaders but popularly kno in as the Tow or of Daird with a substructure which probably belonged to Phasael, Herod's palace tower

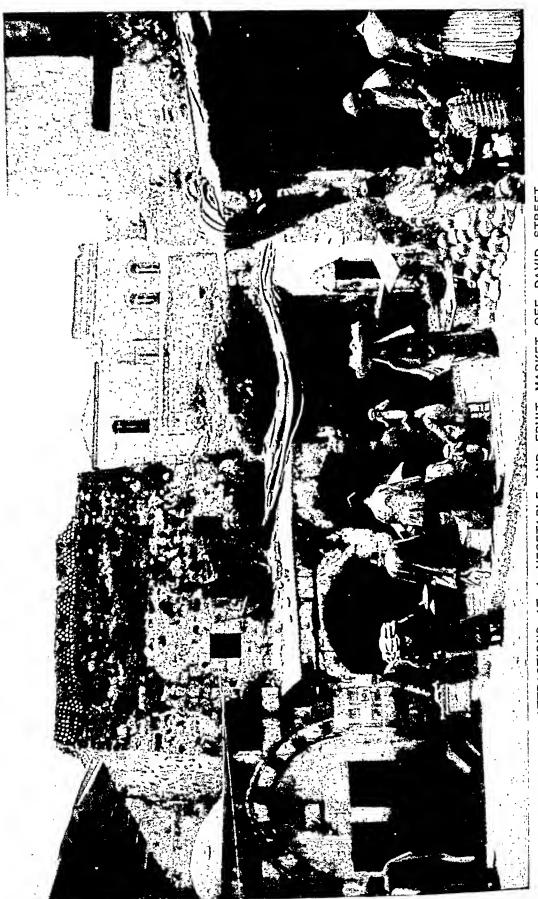
the hands of thousands of pilgrims High narrow arches carried on square unornamented piers rise nearly to the spring of the dome they are arranged in a circle with pier and opening of almost equal size. In the centre of the knee polished pavement of local reddish yellow stone stands the edifice which covers the Tomb of Christ it has no distinction and seems urgently in need of repair. It is in two parts inside in the Tomb chamber so small as to contain but four people is a raused marble slab filling one side behind it a silver icon and burning candles it is very hot and smells of smoke and incense

The Latin Chapel is small and dark the Greek Choir large and dignified but marred by the enormous quantities of things covering the walls and hanging from above All shrieks for repair and cleansing and the sweeping away of all these accumulated gitts some of which proclaim their

donors by the coat of arms upon them The great Russian eagles sit on the door of the iconostasis and on festivals others are placed over the Tomb of Christ Here on Sundays the Greeks sing Mass to dirigelike tunes which to European ears are monotonous The painting of the dome has peeled off and now hangs down in flakes adding to the general appearance of poverty

Round the back of the chorr is a dark ambulatory and stars to the Chapel of S Helena a place of neglect and gloom. Farther on are the stars mounting to Calvary—which is divided into two chapels the actual altar of the Crucifixion belonging to the Greeks and the altar of the Nailing to the Cross to the Latins. Nothing not relatively modern is visible, but by thrusting a hand down a hole under the altar one may feel the rock rouch and cold.

Round the Holy Sepulchre clusters the Christian quarter a mass of narrow winding streets with steps singly and in



Jerusalem is a city of stone, the upper cretaceous limestones upon which it rests offering an inexhaustible supply of building material. Full of charm and colour, some of the stone walls in the bazaar quarter, often crumbling and grass-grown, have weathered the buffeting of many centuries and are made the more attractive by the surrounding lavish display of coloured wares. Of local fruits, olives, figs and grapes are grown plentifully near Jerusalem, but thesearcity of water is responsible for the limited supply of cereals and garden produce, which are dependent mainly on cistern-stored water; as of old, wheat comes principally from the lower plains VEGETABLE AND FRUIT MARKET OFF DAVID STREET AT A ATTRACTIONS

of these are in a state of deplorable squalor and filth; poor barrack-like buildings pressed close together and teeming with life. The new city is almost entirely Jewish. Building is progressing in all directions, and more ground is constantly being pegged out and sold in building lots.

The only water supply is the municipal trickle inherited from the army, and now supplemented from the Pools of Solomon, near Bethlehem. From source water is doled out twice daily to the poorer populace from standpipes. Most houses have, however, cisterns in which to store rainwater, so that practically all the inhabitants are dependent on the rainfall. As the summer progresses the cisterns give out. Hours before the times appointed for the official doles, queues are formed at the standpipes, with much clatter of empty paraffin tins, and endless quarrels and cursings for position. Wine is almost cheaper than water at this time of year.

Near the railway station to the south, at a lower level, is the German colony. This is a miniature garden city, with houses standing in gardens which are in part cultivated, so far as water admits, and narrow tree-lined roads very dusty in summer, but a refreshing spot.

Near by, off the Bethlehem road, the Jewish colony of Talpioth is being developed in the garden city manner, though the gardens are not yet visible. On the Ain Karim road to the southwest is another of the same type built and occupied mainly by school teachers. In the intervening area the land is being developed, so that in a few years the whole of the westerly approaches to Jerusalem will be through suburbs.

Anciently, to judge by the potsherds and scattered tesserae, these heights were occupied by villas and gardens; even fragments of roofing tiles are sometimes found. It may be urged then that these new constructions revive the appearance of the city 2,000 years ago.



BREAD SELLERS WITH UNLEAVENED LOAVES AS IN BIBLE TIMES

The sacred topography of Jerusalem has an overwhelming interest for visitors and even the street scenes in the Holy City hold indescribable attraction, for the present population, estimated at 62,578, represents many races and religions. A lively concourse of travellers, merchants and pilgrims is continuously passing through the narrow thoroughfares

KASHMIR & OTHER HIMALAYAN LANDS

An Eden near the Roof of the World

by Edmund Candler

Author of "On the Page of the World ' etc .

THE fifteen hundred miles of mountain chains that for layes would if transplented to Europe, stretch from the Black Sea to the Bry nl Biscay, and cover consider ably more than twice the span of land between the Baltie and the Adriatic The greatest of mountain ranges is so massive that it deflects the surveyor's It attracts all liquids to plummet itself, scientists tell us, as the moon attracts the ocean It exercises the same magnetism on the human spirit In the clear mornings and evenings of the cold weather one can see " the hills, as the Anglo-Indian calls them, 80 miles away, a low purple web with white threads strung across the horizon like gossamer in hour frist

A lard sege vice of the firmilayis is as impossible in the literary as in the physical sense. Scenically the Bernese Oberland, the Welsh hills the Apeninnes and the mountains of Iceland in not offer greater contrasts, racially the Mongolian Aryan and Semitic hillmen of the Himalayas are as distinct from one another and ignorant of the Imguage and customs of their neighbours as the persants you would meet in a journey from Stamboul to Biarritz.

The Giants of the Himsleyes

Besides this, the different zones of vegetation from the himmed valleys at the eastern end of the ringe to the sterile and almost verdureless tracts of the north west, comprise a flora as varied as you would find in a passage from Andalusia to Derbyshire

It is in Nepal Sikkin and Bliutan the region most affected by the mon soon, that the vegetation is most Juxuriant. And here are grouped the grants of the Hamalyas earth's highest summits. The greatest peals he at the extreme ends of the chain. In Nepal and its boundaries to the cast and in Kashinir territory to the west. Nepal alone within its boundaries or on its borders emitting a hundred peaks of over 21,000 feet, and twenty three that exceed 25 000 feet midding Everest (20 140 feet) and Kinchinjunga (28 146 feet) the highest and third highest summits in the world.

Kinchinjungs through the Mists

Much of this country is un splored Nepal is closed in Luropeans sixe fir the main strught road into Klintimandu, and this is only open to the resident and his guests while the native state of Blintin at the extreme end of the clinin is little more accessible. But between these two enclaves lies Sikkim an open abor to the traveller. It is a country of fabulous beauty.

Among hill stations Dirpeling is inconfestably the finest view point in the Immalayas In sheer sublimity Kinchinjunga is imparalleled looks across an immense forested abyss in where its dazzling rilts and spires fill the horizon. Darjeeling hes on the first bulwark of the flundlay as which receives and condenses the moisture Inden currents of the monsoon months at a time it is enveloped in mist and cloud and many are the travellers who have visited it and returned disappointed without a glimpse of the snows. The first lilting of the curtain is an inforgettable memory is better to arrive in mist and watch the panorama slowly unfold intermittent glimpses revealed through floating cloud, suggestive of a hidden

THE HIMALAYAS FROM CHITRAL TO SIKKIM BARRIER OF FIFTEEN-HUNDRED-MILE

KASIIMIR



COUNTRY-FOLK IN A STREET OF ONCE FAMOUS ISLAMABAD Islamabad stant is on a ridge overlooking tile north bank of the Ihelum 28 miles so the east of Sringar. It was formerly tile capital of the state and until the fire-unit crutiny was known as Anant Nag after its 1 (ly reversor. The to as hay at out 9 600 inhall trusts and contrusts an old summer palace and a fine mosque and shrine. The runs of Martand are about five numbes away.

majesty and remoteness impress one more than the complete revelation

Two of the chain Simolchii and Chumulhari dwarfed by their neighbours at this distance, have been saluted by a succession of travellers as the most perfect examples of mount un archi tecture The exquisite grace and sym metry of Chumulari whose image sleeps in the throughse-blue waters of the Bamtso will be remembered by all who have taken the road from Darreeling into Tibet Everest and Makalu (27,773 feet) in Nepal, with their array of attendant peaks are hidden by a spur to the west of Darjeeling, but in an hour or two s ride one may reach a point from which they are clearly visible at a hundred miles distance

One gathers little more than a lint of the variety and prodigality in det iil of Himalayan scenery from this bill top One must descend to the valley and climb the ridge through which the road winds up to the Jelepla, the highway into Tibet Nowhere in the same compass will one find the characteristics of the different zones of vegetation, from tropical to temperate from temperate to alone so lavishly exhibited The Tista valley immediately below Darjeeling is only 700 feet above sea-level Here we are in the tropics. In the trough of the valley the air is as enervating as in the plains The regetation scems to grow visibly in the steamy moisture Stately tree ferns raise their heads above a tangle of

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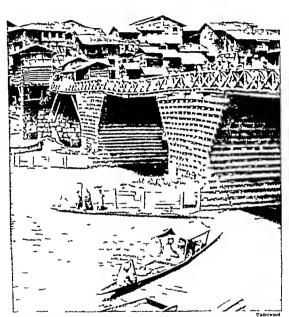


CITADEL OF THE MOUNTAIN STRONGHOLD OF DUG-GYE IN BHUTAN
Bhutan, situated on the southern declivity of the eastern Himalayas, is a land of forest-clad
mountains and deep intervening valleys. Fortresses have been erected in several of the passes
into Tibet to check raids by the Tibetans. These strongholds have galleries with wooden roofs
running round the walls and a central citadel, occupied by the governor

rank undergrowth, vines and bindweed, convolvulus and the exquisite smilax and scarlet clerodendrons. Gorgeous butterflies flash across the path, weaving an iridescent pattern in the shade. The ceaseless din of the cicadas is deafening. The birds, too, of this forest are strident and unmusical; they shriek and whistle, but rarely sing.

It is a hot-house atmosphere, a belt of tropical luxuriance. But as one ascends the winding path into the mountains the air becomes sensibly fresher and the vegetation changes. One passes under terraced rice-fields and through waving maize, whose spring verdure is the greenest in the world, through orange groves and peaceful

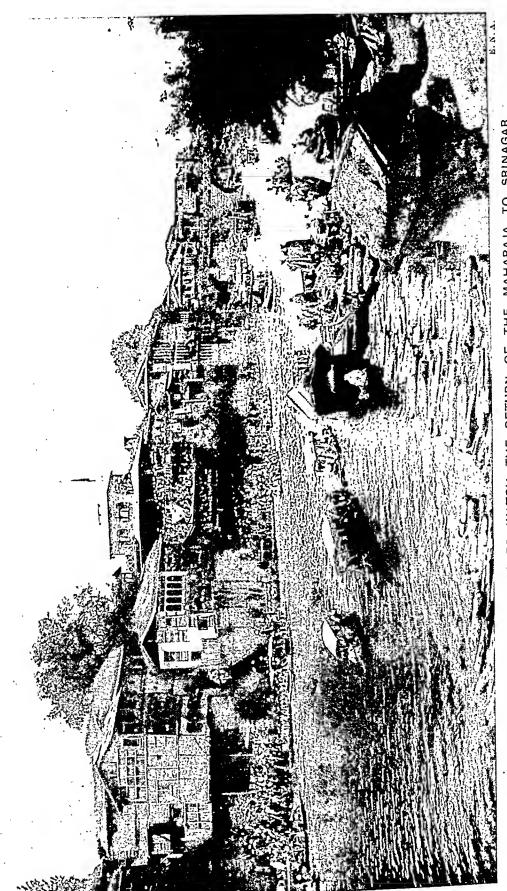
KASHNIR



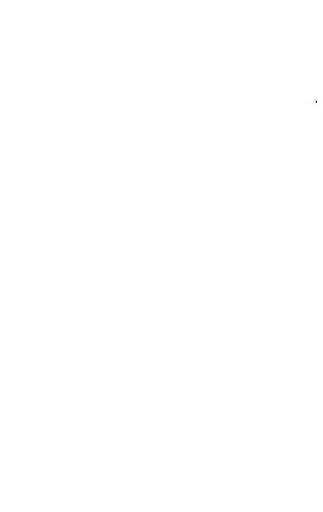
WOODEN BRIDGE AND HOUSES WITH GRASSY ROOFS IN SRINAGAR Smaa ar the cap tail of I ashmr stands on both banks of the J leium 5000 feet also e sea le ed and 157 miles from Lahore. The unstable booking to her dived largs strough the pulse and stretch along the n er banks for nearly to omiles. The clief industries are those of the wood carvers gold si er and copper smiths paper maché makers and dee are a precious stones.

villages where tile scarlet hibiscus glows in the hedges among the great white trumpets of the ditura. At 4 000 feet one regains the fringe of semi European vegetation. The road be comes a ladder of stone beside a moun tain torrent. The waterfalls of the eastern Himalayas are embowered in greenery. The wreekage of the stream

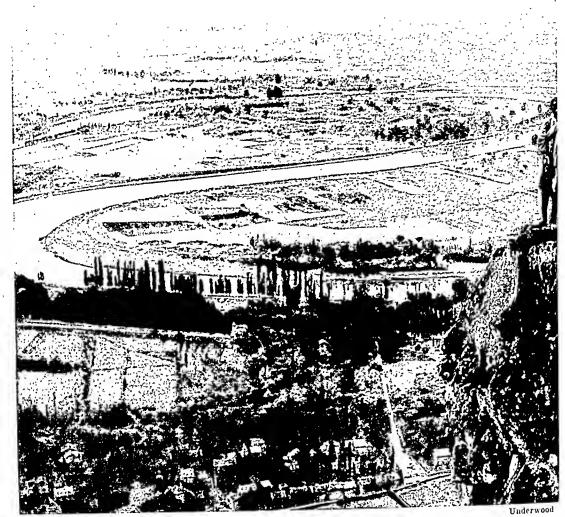
is hidden. No run and debris I ere or ugly gashes in the burnt thirsty earth but a furyland of flowers and ferns and moss each rock a garden of begonias columbines and balsam peeping from their moss beds. And the trees are draped with orchids lunging in sprays mauve white lemon and yellow. The evergreen oak and chestnut—not the



Jammu is the winter capital of the maharaja of Kashmir and the day of his return to Srinagar for the hot wenther is kept as a lestival. Srinagar is the bottest part of the valley of Kashmir, the temperature sometimes rising to 95 degrees in the shade during the months of July and August, hence there is a bottest part of the valley of Kashmir, the temperature sometimes rising to 95 degrees in the shade during the months of July and August, hence there is a general exodus to Gulmarg, which has become a fashionable hill station, at about the beginning of June. The great-annual invasion of visitors has led to a serious diminution of game and to the creation of game preservation laws THE JHELUM TO WATCH THE RETURN OF THE MAHARAJA TO SRINAGAR



2448



RIVER JHELUM FROM THE THRONE OF SOLOMON ABOVE SRINAGAR All the fruits of temperate climes grow well in the valley, the mulberry, grape, pomegranate, apple and pear being indigenous, while the apricot and peach have been introduced. The plane tree is the glory of the valley and the cultivation of saffron is an old industry. The Takhti-Suleiman or Throne of Solomon is a temple-crowned hill goo feet high to the east of Srinagar

was discovered by the Everest Reconnaissance Party in 1921. In the Kama valley at the foot of Everest and Makalu and overlooked by three of the five highest summits in the world they discovered the Himalayan Garden of Eden; and in Makalu a peak preeminent for its rugged and spectacular grandeur. Its smiling pastures carpeted with gentians, saxifrage and primulas rise to the very verge of icebound and snow-covered tracts where mighty glaciers descend among the forests that clothe the lower slopes. It was a surprise and a delight to find fir trees, birch and juniper, and a very luxuriant vegetation, growing on either side of the ice and the moraine beside it.

Bhutan, at the eastern end of the chain, is as difficult of access to the unofficial traveller, and every bit as medieval, as Tibet, though not so inaccessible as it used to be. In scenery and vegetation the country may be compared to Sikkim and the Himalayan borders of Tibet. Sikkim, lying as it does at the threshold of the Giants, is more sublime; and Tibet has scenes of wilder and more desolate grandeur. The most distinctive feature in the scenery of Bhutan, the thing one most remembers, is partly artificial. In its crag-perched monasteries and forts one discovers a blend of geological and monkish architecture which would be Tibet. romantic even in

KASIIMIR



DISTANT VIEW OF THE FORT PERCHED HIGH ON HARI PARBAT LIA tattant lateful layoffer high on the northern mulatrict france: this were not by a well was not also a well as a set to 10.7 May as a be and of the composition will like the lateful at the gardens and combine nearly all of which are leadered to make a lateful distribution and that no lateful lateful at the lateful distribution and that no lateful lateful lateful when when the lateful forms a distinct to

Bhutanese lamas know how to supplement God's handiwork

But we must follow the chain to the north and west leaving Nepal behind in with its 500 miles of virgin pt its and great rivers unexplored. The north ward trend of the Himility is is as rule imperfectly realized. Who for instance without the verification of the map would accept the statement that Similities in a latitude of a hundred miles farther north than Linsa? The capital of Tibet as a matter of fact is south of Ambala in the plains of the Punjab Everest is well to the south of Kumaon and Garliwal the first Bruish territory to the west of Nepal

The grants of the Himalayas as we have pointed out he at the extremities of the runge but in Garhwal the centre of the chain is grouped a chister of magnificent snowy peaks breaking the uniform mountain level to the north west and south east. Nanda Devi (25 645 feet) and Kamet (25 355 feet) he within British Garbwal Gurla Man dhata (25 350 fect) just over the Tibet This district which contains the principal sources of the Ganges and Jumna, has Alpine beauties of its own. but its valleys are shut in One does not gain the same sense of immensity as in Sikkim or Kashmir, where one seems to be gazing into space itself. It is

KASHMIR 2450

difficult to realize the tremendous height of the peaks above one. But Garhwal is most often visited for the view of the Pindari glacier, which lies near the foot of Nanda Kot (22,000 feet). It is the only glacier easily accessible from the plains of India. A good road leads up to it through the Pindari valley with rest houses at every stage, so that one may make the journey without camping out.

Where Snow Overhangs the Plain

The best view-point of the hills from the plains is at Kangra at the foot of the Dhaula Dhar. It is the one point in the long line of the Himalayas where the snows overhang the plains without any intercepting ridges. Beneath this range there is a wide sweep of almost tropical vegetation. From the gentle rise at Kangra one looks down through the creamy white blossom of the bauhinia on to the green belt sparkling with streams, and then up the gaunt buttesses beyond, over the dark ilex and rhododendron forest to a line of peaks as bold as one could wish. The highest point of this great wall is 17,000 feet; the mean elevation some 15,000 feet;

that the wind sweeping through the gorge drowns the roar of the torrent. On the opposite cliff the splintered buttresses that tower above the river are the shoulders of Raldang. No valley intervenes; sone looks up through the forest to the glaciers hanging over it.

The hill folk in this valley, and all over the Himalayas, are animists though they call themselves Hindus. believe that every tree has its little deva, or spirit, and whenever they fell one, they place a stone on the lopped trunk to keep the genius within. Their temples of stone and cedar wood, roofed like pagodas with overhanging fretted eaves, stand in groves of deodars, which being sacred are protected, and thus attain an immemorial age and a girth But long before one corresponding. reaches the frontier, before the declar gives place to the blue pine in the dry country that reeks of southernwood, one encounters symbols of the cult of the dwellers on the roof of the worldhere a praying wheel, there a mani-wall or a chorten or a pagoda-roofed arch frescoed with Buddhistic script.

Pilgrim and Mountaineer

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NOMAO SHEPHERD BY A LITTLE BROOK IN FAIR KASHMIR

There are wan lering bank of sheplereds in the In the area of hast mit, which comprises the provinces of Lackth Elalistan Gligit and Hunza. The chief occupation, bowever, is wearing an I though the famous hastmir shawl has now been displaced to some extent by the hastmir carpet slik wearing is still the most prosperous industry at the present time.

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so awe-compelling as the cave of Amarnath on the borders of Kashmir and Ladakh. It is Siva's reputed dwelling-place, a mansion fit for divinity. The roof is a 17,000-foot under which the god and his spouse, Parvati, dwell, congealed in two green stalactites in the atrium of the cave. The pilgrims who are drawn to Amarnath in thousands from the burning plains of India—the cave is twentythree marches from the railway at Rawalpindi-worship these pyramids of ice as a manifestation of the First Cause, the genesis of Energy, of which the image and emblem, the stone lingam of Siva, stands at the door of every temple dedicated to the god.

Haunts of the Sportsman

A number of small semi-independent states intervene between Simla and Kashmir. Chamba, the most important of these, is preeminently the haunt of the sportsman. On the snowy slopes the ibex, red bear and tahr are found. The tahr, a species of wild goat, inhabits inaccessible crags. Like the serow he has a large body, but a disappointingly small head. The markhor, on the other hand, another wonderful climber, has a remarkably fine head. His habitat is farther west in Kashmir and the adjoining territory. The red bear is becoming scarce in Chamba, Kashmir and Kulu, which he used to haunt.

Bird Life of the Forests.

The black bear, however, is ubiquitous all over the Himalayas; he changes his ground with the season, and in summer is generally found near the ripening maize. The gooral, or Himalayan chamois, frequents the crags and forests of the lower ridges. But the ordinary traveller who is not bent on "shikar" (hunting) might traverse the Himalayas from end to end without meeting any of these beasts.

Bird life is more plentiful. The forests are a happy hunting-ground for the naturalist, though a little disappointing from the point of view of

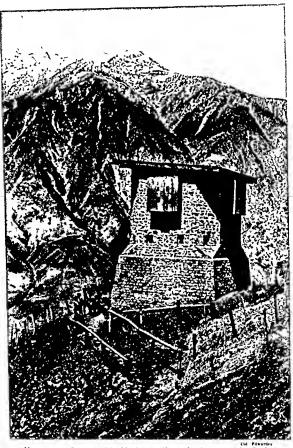
the sportsman. The Himalayan pheasants, for instance, seldom rise, and when they do, it is difficult to get a shot at them in the thick jungle. On the middle ridges the monal is plentiful. The cock bird, as all sportsmen know, is with the exception of the argus-eye the most beautiful pheasant in the On the Sikkim-Tibet border. where the snow melts in the pine forests and leaves soft patches and moist earth, you will find the blood pheasant. The hen is insignificant, but, on a closer acquaintance, the cock shows a delicate colour scheme of mauve, pink and green, which is different from the plumage of any other bird I have seen. Another pheasant of the Sikkim borders is the tracopan, a smaller bird than the monal and very beautifully marked.

The snow partridge is found among the large loose boulders on the crests of the inner ranges. These birds are gregarious. In appearance they are a cross between the British grouse and the red-legged partridge, having red feet and legs uncovered with feathers and a red bill and a chocolate breast.

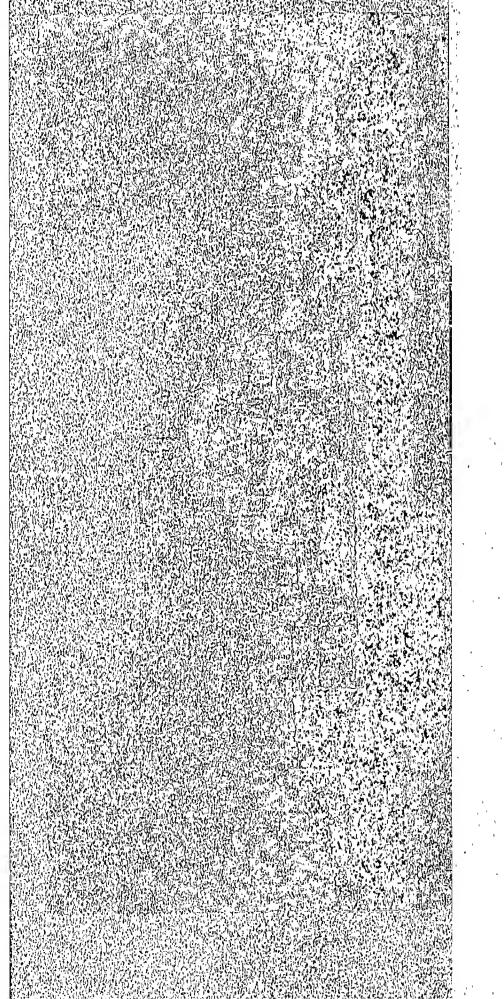
Kashmir and its Borders

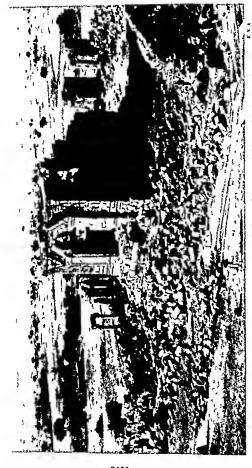
The chikore, a red-legged partridge very like the European variety but larger, is found on the bare hillsides of the Western Himalayas. He is a strong flier, providentially gregarious, and affords the best shooting in the hills.

The territory of the maharaja of Kashmir includes the western extremity of the Himalayas as established by geographers for the sake of definition only. The Indus is the boundary, and Nanga Parbat, that magnetic peak, which is visible sometimes from the valley of Kashmir, is the western bastion. Beyond the Indus, to the north and north-west, lies the wild Chitral, including country Punyal, the Gilgit valley, Hunza and Nagar, which is collectively, though not very scientifically, known as Dardistan Here we enter the Hindu Kush range, which extends in a south-easterly direction into Afghanistan.



HIMALAYAN LANDS. Machicolated galleries for downward fire, barbed wire and Gurkha garrison keep the block-house against Chitralis





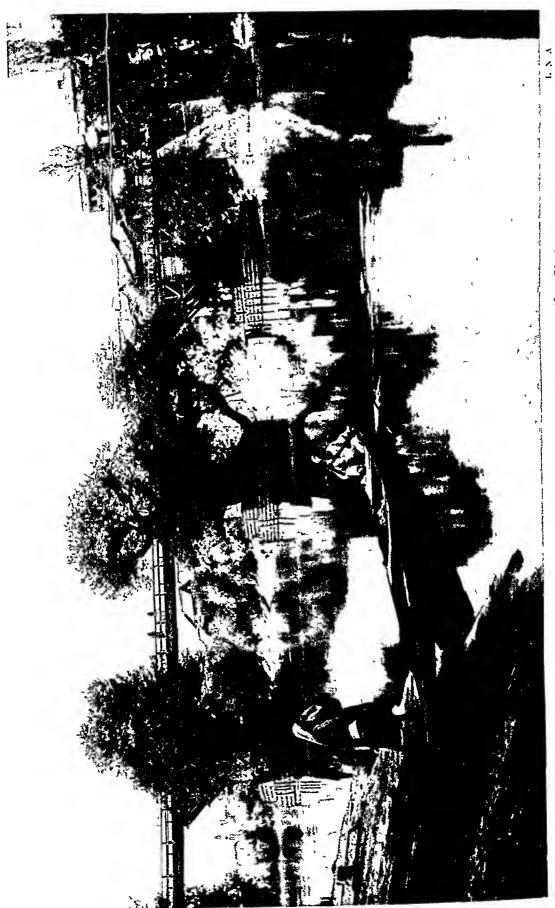
HIVALAYAN LYNDS About five miles from Islamabad are the runn of Martand, which include the largest temple in Kashmir and the finest examples of the ancient Kashmiri style of architecture



HIMALAYAN LANDS. This man-made spider's web of a rope bridge sways giddily above the seething flood of the river Jhelum at Uri



HIMALAYAN LANDS. On the road to Ganglok through Sikkim's dank woods the erecper riots triumphant over the trees it has smothered 2457



Himalaxan Lands. A wooden bridge on quaint tree-grown piles spans the Jhelum at Srinagar, the former hot-weather capital of the Moguls situated in the centre of the "Happy Valley".



HIVALAY ANDS This uneen line of storeved howers, some surmainted by sloping roofs to ered with certh, straggles along the bank of the Jhelum which rends through the ancient city of Srimgar



HIMALAYAN LANDS. Above the clouds that wreathe the mountains of Darjeeling rises the awful wall Kinchinjunga whose name means the "five treasure-houses of the great snows." The highest peak is 28,146

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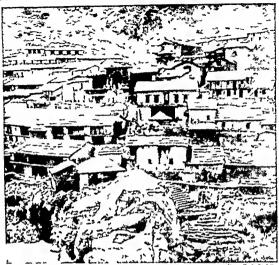


GOHNA LAKE IN GARHWAL FORMED BY A TREMENDOUS LANDSLIP Garhwal, a district in the Kumaon division, has an area of about 4,200 square miles and consists almost entirely of steep and rugged mountain ranges extending in every direction and separated by deep gorges and ravines. The cultivated area is small and principally confined to the banks of the rivers. The distant triple summit is that of Mt. Trisul, which is over 23,000 feet high

becomes a burden that folk flock up to The place is the summer capital. nothing more than a huge caravanserai, a collection of tents and wooden huts, the maharaja's palace, the residency, and one sprawling hotel. You might leave Kashmir without setting foot in the Pir Panjal and still think of it as the terrestrial paradise. The road from the railway at Rawalpindi to Srinagar drops into the Jhelum valley below Murree and follows the bank of the river cut into the edge of the cliff, until one comes to Baramula under the cedar forest and enters the vale of Kashmir.

In the last few miles before Baramula the torrent becomes a wide unbroken stream; the valley broadens out into rich corn and pasture-land; walnut and willow and elms enfold snug villages. At Baramula the Jhelum becomes navigable for the first time.

This is the threshold of the Kashmir of paradisiacal tradition, and the visitor, if he is wise, will forsake the road and continue his journey to Srinagar, the City of the Sun, in a houseboat. He will be poled and towed to the Wular lake. He will visit Manasbal, the most beautiful lake in the world, if we except On the fourth day he will the Dal. enter Srinagar. Like all dirty, picturesque, dilapidated, old Eastern cities built on a river bank it is best seen from The smells are chastened in a boat. midstream, and the filth of ages never 2463 KASHMIR



FAMOUS TEMPLE OF VISHING IN THE VILLAGE OF DADRINATH

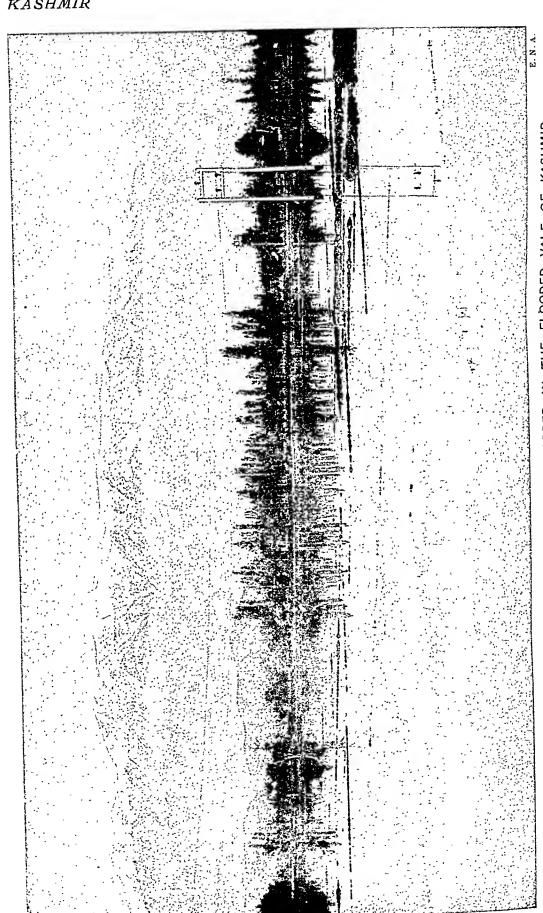
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Fad a valuation is too the temple. Indicated in the National read and and all in shape

is no nated by a cycla with a citical and by common the probability of the Market About 50 coop for it will the temple.

of ends the eve The houses are brown of wood and brick two or three storeyed with carved latticed windows and fretted balconics and roofs covered with mo-s and grass and flowers. In the mosques and some of the houses the projecting roofs are carved and ornamented generally in the shape of lianging billflowers Women. and children crowd the balcomes and river steps Their dresses a kind of tibbah with loose upturned sleeves magenta green terra-cotta or purple glow in strong relief against the quiet tones of the old wood and brick

Srinagar lies between two hdis-to the west the sprinking yellow fort of Hari Parbat to the east the Takht i Sulciman Solomon's throne ri ing I ooo above the plain The lake laps the bases of both hills both are reflected in its clear waters In colour and outline, shadow and light the image is as beautiful as the substance It is a spring fed lake of cry stalline clearness. The surface five miles in length and two and a half in breadth is broken by belts of gig intic reeds bidrushes floating gardens and ıslands The vegetation which has encroached on the lake adds to its variety and beauty. One can spend mornings watching the birds-the terns the grebes the paranas the herons the fish eagles the kinglisher dropping like a plummet from its crumpled lotus



MOUNTAIN PEAKS

leaf, the dark red dragon-flies, the lazy fish burrowing into their green underworld Or one can watch the craft in the channels on the Srinagar side coming back from the gardens with their market produce, bont-loads of enormous pumpkins, water weed for cow fodder, rushes and reed and over for matting and fuel and thatch. There are gardens of coxcombs in the dry patches between the dykes, a rich warm glow of colour, and fields of bright marigolds which the orthodox Hindu plucks daily to strew on the altars of Sixa At every turn in these winding creeks one catches some new glimpse of the hills, the brown and mauve crags over the Nishat Bagli, the thimble-like shrine on the Takht-i-Suleiman, or to the south Tatakuti in the Pir Panjal rimmed with fresh snow

Beside the Shatimar

The Nishat, Shahmar and Nasim Baghs on the shores of the lake, the legacy of the Moguls, are the most beautiful gardens in Asia The Nasim, or garden of breezes, more a park than a garden, is memorable for its spacious groves of chenars planted by Akbar in the secretti century. The Shahmar in the north-east corner of the lake was the pleasaunce of Jehangir and Nur Mahal celebrated by Thomas Moore in Lalla Rookh All these gardens are built on the same plan A spring-fed conduit runs down the centre, dropping from terrace to terrace by a series of cascades into reservoirs in which fountains are playing. The will of the basin of marble or old limestone is niched for lights which glisten on nights of festival behind the falling water The central conduit is bordered by paths with flower beds on either side, intersected by other paths at right angles between the lawns, which are symmetrically planted with inagnificent chenars

Architecturally, in symmetry and formalism, the Shalimar has best preserved the old Mogul atmosphere and tradition, but the Nishat Bagh is

meomparably the finer of the two This is due to its natural setting, its spacious lawns and torraces falling away from the bold and coloured crags behind to the green shores of the lake, so that the last payllon, emboured in roses and jasmine, overlooks a bed of lotuses. The Pir Panjil, 20 miles beyond the opposite shore, forms the southern screen.

Lofty Pass into Ladakh

The mountain scenery of Kashinir, wild and pastoral, is inchaustible in its variety. This great diversity of land-cape in a small comprise is not repeated elsewhere in the Himalyas Front Bandipura on the Wular Like not may cluth the rigzag path to Tragbal, blich leids over the Burril and Kamri passes to Glight and the Pamirs. Ten days out of Srinagar one may camp under the Tarshing glacer in the Rupil nullah at the foot of Nanga Parbat.

Or one may leave one's househort at Ganderbal, and after seven easy marches one has crossed the Zop la (11,300 feet), the lowest depression in the northern wall, and is well on the road to Leh in Ladakh But the scenery of the mountain country beyond the watershed is of another order or grandeur, wild and inhospitable Kashmir scenery appeals more to the pastoral bias in the traveller. The country, whether he enters it from the south or north, is an idylhe contrast to the barrenness, whether of parched plain or rocky wilderness, he has left behind.

Trees in Coloured Procession

It is a green world, and bubbling water-courses chatter among the poplar and chenar trees and run underneath the road, feeding the rece-fields and turning little mills like rabbit hutches laid across the stream. These rivulets incan a double border of flowers by the edge of the road, a line of homely English wayside plants. The edge of the field, especially where a wooded hill falls abruptly into the valley, is often

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overgrown with a forest of balsam, which varies in colour with sun and shade and soil, so that one sees it descending the ravines like a marshalled procession, group behind group, in uniforms of pink or white or yellow.

The paths rise gently from the river through a rich country dotted with shady villages. Fat marsh plants border the dykes of the green lanes that lead off on either side to the hamlets through avenues of willows. The villages are embowered in groves of walnut, elm and chenar, apple orchards and clumps of hawthorn.

Lake Garden of Lotus

The walnuts are the largest I have ever seen; the grass under them is starred with balsam and larkspur. The irises, the small purple kind, grow in thick clusters, so close together that they look like a sown crop. They flood the humble graveyards outside the village and make flower beds of the flat grassgrown roofs of the houses.

Such is the valley in spring. Summer has other charms. The window of one's houseboat opens on to a garden. Dal lake then is ablaze with the tall pink lotuses, acres and acres of them, through which a channel is preserved with difficulty for navigation. One hears a great deal of the heat, but the thermometer seldom rises above 80° or 85° F., and the air is freshened with constant showers. Still, in July or August most of the visitors will have gone to the upland plateaux, either to Gulmarg or to the camping grounds in the valleys of the northern tributaries of the Jhelum.

Dread Work of the Glaciers

There is good trout fishing in the side streams preserved by the state. And sportsmen who have time to go farther afield can generally count on a head or two of markhor or ibex or red bear. The season of the black bear and of the Kashmiri stag is the autumn.

The country to the north of Kashmir is the best field in which to explore the

ice world of the Himalayas. Beside the glaciers of the western Himalayas and the Karakoram those of the Kinchinjunga group at the eastern end of the chain are inconsiderable, while the glaciers of the Alps offer no standard of comparison. The movements of these ice-fields are governed by no ordinary laws. They gather impetus from the tremendous height and precipitousness of the cliffs from which they are discharged. The Yenugutsa glacier in the Hispar district is known to have advanced at least two miles, swallowing up water mills and converting a cultivated valley into a waste.

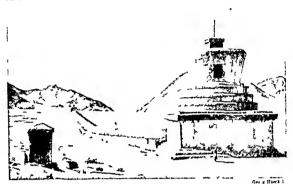
The Hassanabad glacier in Hunza is believed to have advanced six miles in two and a half months, threatening villages in its course. When I visited the Diamarai glacier on Nanga Parbat in 1913 a sudden ice flood seemed to have swept over the surface of the old glacier, which had descended and carried away miles of pasture-land on the south bank of the Indus. We looked down on tumbled chaos.

A Picture of Destruction

From the pass above the Diamarai nullah the millions of spires and cones reminded us of a graveyard. Down the centre of the valley the lateral moraine stretched clear-cut like an enormous railway embankment. When we descended we found that this great wall, which rises at its highest 250 feet above the glacier bed, was being dislodged by the impact of new forces.

Huge blocks of ice, shiny turrets and pinnacles, were lifted up 40 or 50 feet above it and hung on its edge, supporting boulders which were continually slipping away, so that the hollow below our tents was being pelted by a stone shoot all night. This monster was alive, shaping the hills anew. It crushed, devoured, disgorged; it carried ruin on its back; it had heaved and stretched its snout across the valley, and was bursting in the cliffs on either side.

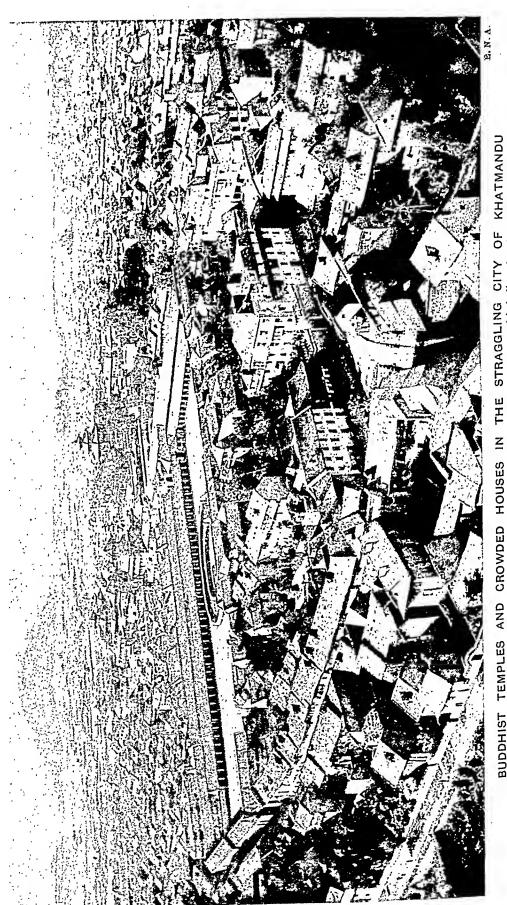
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MILE LONG MANI WALL ON THE WIND SWEPT PLATEAU NEAR LEH Thew salls are on tructed of stone and to cred with stone flat a on which let the stretch likelite from 1 to Manail padne from meaning of the first in the first They are bit is order to acquire mentical fit relic. Leh sit ate to rules from the late is the cat laid in the sall actuant actual centre between limits is above a variable at Librar



TREE CLAD FLANKS OF STUPENOUS MOUNTAINS NEAR SONAMARG
Sonamarg st ited in the Sand valley 8 soo feet abo e scaleed a viconce the principal snaateri m
in Lashmr. The hel it is above lot I done it to the forely valley of the Shird rer a I among the
peaks a namy small glackers. Around Sonamarg are numerous beautiful pastures in the form
of low tabelands at the foot of many of the sparrer ranking down to the valley.



Khatmandu, the capital of Nepal, lies on the bank of the Vishnumati at its confluence with the Bagbmati, and is believed to have been founded in A.D. 723, taking its name from an ancient wooden building in the centre of the city, "khat" meaning "wood." The streets are extremely narrow and often dirty, while the houses, which are built of brick, have two or three storeys and many are ornamented with richly carved wooden balconies. The city has a population of about 80,000 and outside it are the British residency and the maharaja and the nobles. In the centre is the huge caravanserai

The narrowest point, where we crossed, was three or four furlongs wide Our men had been cutting steps before dawn and we had made a portable birch wood bridge for the crevasses. They were not wide and held no surface snow The only danger lay in the boulders which hing on the cliffs of ice above our heads, but we crossed before the sun had power to loosen the debris We ascended and descended many cold staircase, and seldom could we see-beyond the wall in front and the wall behind. The glacier here was black with debris, and the jagged turrets of dirty ice shone like smooth damp conf-The ghostly company took on strange shapes in the mist, curled and polished, hooded and cowled, their black and dripping garments offered a suggestion for an allegorical picture of lost soul-

But nnthing could have been lovelier than the glen beside the morance where we camped in a forest of scruli willow, birch and mountain ash. Spires of the rose-bay willow herb waved gently in the breeze. The vivid erimson of the stalk and leaf of the wild rhubarb was brighter even than the berries of the eglantine of which there were still a few lingering pink blossoms. The floor of our tent was a carpet of swertia, gentian and golden rod. The ravage of the glacity was hidden by a group of wirspering birches. And at sunset the clouds which had been sweeping over Nanga Parhat all day lifted and revealed the great north west wall, 11000 feet of tee and snow and precipice bathled in rose and opil.

Of all one's memories of Thinalayan travel it is these sylvan camps on the margin of the ice world, islands of Arcady, that recur most hauntingly One forgets the rain, the blizzards and the snow, one only remembers the evenings of transcendent peace and beauty when the faintest shidows of colour linger caressingly on the weatherstained rock and light up caves and galleries which have been indistinguishable all day, when the soft violet haze merging into emerald suffuses the abrupt cloud rim that hes stretched at the foot of the snows, and the glaciers take on a mysterious sheen as though of one birth with the stars

HIMALAYAN LANDS: GEOGRAPHICAL SUMMARY

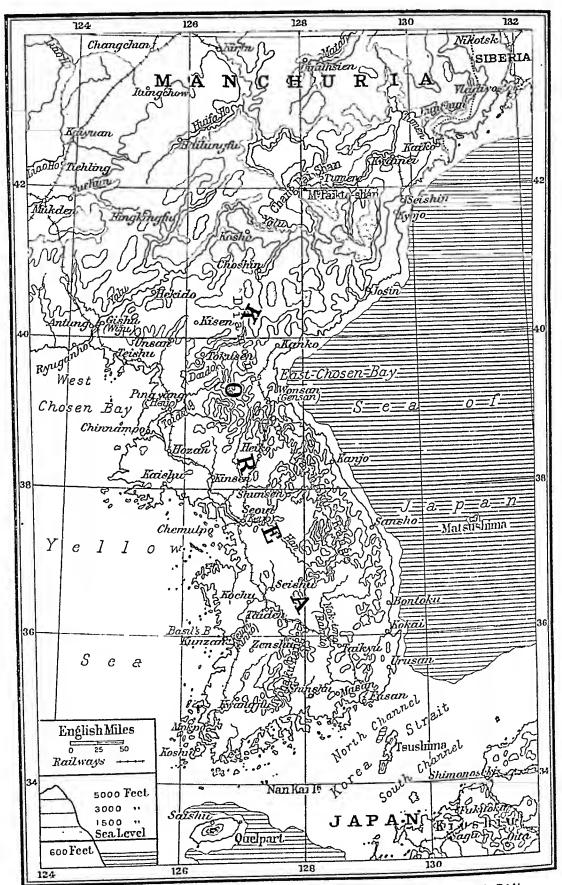
Origin. In the early days of the world a great sea—the Middle Ocen, or Tethlys—separated at its eastern end two ancient continents. Angaraland to the north-east and Gondwanaland to the south. Of the former China and north-east as a relic, of the latter the Deccan of India is the main Asritic Premiant. In Tertiary times slow yet stipendous changes altered the face of the carth, steady pressures from the north built up against the resistance of the Deccan crust block a series of folded mountains—the Himaliyas, the giant mountain ridge of the world, the eastern section of the great east west mountain fold which joins North Africa and Spain to Burma (CI Mediterranean Sea.)

Natural Division. Stretched in a curve,

Natural Division Stretched in a curve, bowed out to the south-west, reaching to five and a half miles above scalered as a maximum and three miles on the average, a jumble of peaks and ridges with intervening high level valleys drops relatively sharply to the plains, almost at sca-level, about 100 miles away; this is on the

southern, the Indian side. On the northern side the plateau of Their is in general two miles above sea level. On a gigantic scale, then, the Humaliyas are an exaggeration of the Western Ghitts and form a mightly scarp overlooking the plains, yet merely a serrated edge to an elevated plateau. The gigantic uplift has pushed upwards for at least a mile the granutic core rocks of the errift's crust, and has raised almost into the levels of the upper air rocks find down miler the sea l'ossis have been discovered about four miles above sea-level.

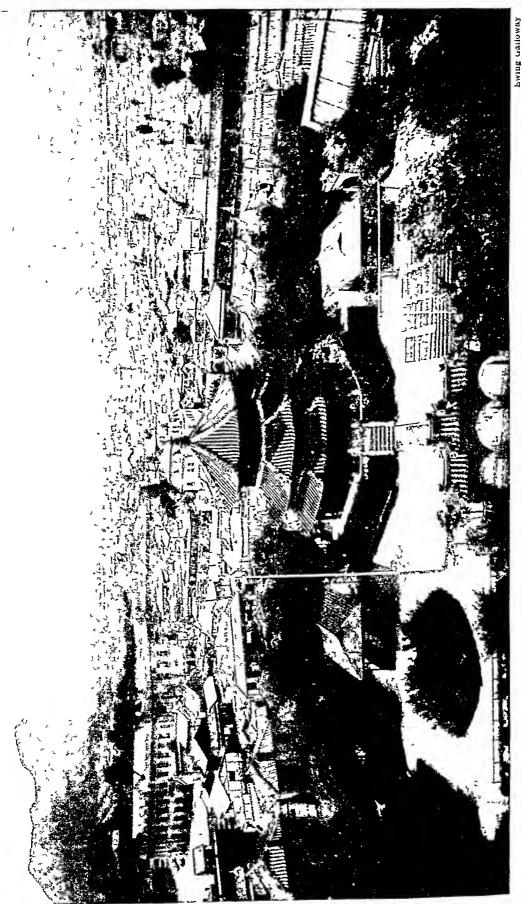
Climate and Vegetation Along the Indian face the climate is controlled by the monsoon winds which blow from May to September from the Bay of Beight along the scarp and deposit decreasing quantities of rain from east to west. From the jungle swamps, the tera of the foothills, to the snow, cape on the heights the zones of vegetation succeed each other with increasing height as they normally do between Equator and Arctice with increasing latitude.



KOREA DIVIDING THE YELLOW SEA FROM THE SEA OF JAPAN

KOREA

Peninsular Link 'twixt China and Japan by J. O. P. Bland



Seoul or Keijo, the capital of the former Korean Empire, is situated in the province of Keila-do on the river Han about 35 miles from Chemulpo. The city is surrounded by walls from 10 feet to 20 feet high, which are pierced by eight gates, the largest being the Nan-Daimon or Great South Gate. On the right of the saddleback in the centre of the photograph is Mount. Hokugalauzan at the foot of which is the Keifuku or Old Royal Palace, erected in 1850. Behind the residential quarters there is a banqueting hall 90 feet by 114 feet and supported by 48 stone pillars. ANCIENT WALLED CITY OF SEOUL AND ITS BACKGROUND OF DENUDED GRANITE CRAGS

over 100 miles; and the Han, which before the building of the rulway provided the cluf lingliway of travial and transport between Scouf, the capital, and the sea coast near Chemulpo a distance of 50 miles. All these river serve not only for junk traffic but as reservoirs for the irrigation of agricultural linds, along and around their banks he the most populous and prosperous districts of Korea.

The coast-line is irrigular, and its aspect on the castern side of the pannisula vity different from that on the south and west. The eastern coast is generally precipitous and nily slightly indented, providing nily three serviceable harbours, if which Winson (formerly Ginson) is the best. The tidal rise and fall on this coast is about two feet, whereas on the sloping western shores it varies between 20 and 22 feet.

Tides that Riss 30 Ceet

The southern and western coasts are deeply indented fringed with thousands of islands, large and small, and privide a number of excellent larbours of these the most important are Listin and Massimpo at the southern extremity of the points and Kunzan, Mokpo Chemulpo and Chinnimpo on the west. At the two last named ports the Japanese government has built docks to overcome the shipping difficulties caused by the account duty are and fall.

The most notable of the islands in the archipelago off the southern and western coasts are Quelpart, lying about 60 miles to the south west of the mainland, the Nan Kai group in the Korean Strait, and Kang wa off the mouth of the Han river In spite of the biogod channels and coast lights provided by the Japanese government since 1910, nivingation in these waters remains difficult and dangerous because of their tidal currents and uncharted rocks

A traveller journeying through Korea in former times—the writer made the journey with pack pomes in 1887—might casily have been led by the general aspect of the land and its

inhibitants to conclude that it was a poor country, of very hindid resources. Looking beneath the surface of things, however, it was not difficult even then, to form a different opinion, to preceive that the comparatus smillness of the population and its general apathetic inertia were not due to poverty of the soil but rather to those political and economic conditions which deprived the individual of any incentive to work for more than the bare means of life

Land of Pausble Climate

As a matter of fact, now fully demonstrated by the preliminary researches, and experiments of the government's model farms, the soil is sufficiently, fertile, under proper conditions of agriculture, to afford the people a higher standard of living and leave a wide inargin for export. It consists chiefly of hight sandy form like that of Minchinary and North China, disintegrated has and rich allivium, varying in digith from three to ten feet.

The clunate of Korra is one of the finest and healthest in the world It is a climate of right "assons, giving a richible rainfull during the summer when the soil needs it, and plenty of sundaine, with a brisk and bracing air during the runninder of the year. The winters in the lugher latitudes are cold, but not more rigorous than those of Scotland, while in the south they resemble those of the Rivera.

Typhoon and Earthquake Unknown

The "Land of the Morning Calm" is never visited by the typhoons and hurricanes which make have in China and Japan; it knows not the everhaunting fear of carthquakes, and is usually free from severe floods and droughts. The mean temperature of Scoul in summer is about 75° F. and that of the winter about 33°. The average annual rainfall is 36 inches, of which about 22 inches occur during the ramy season. The latter begins on the south coast in April, lasting till July, on the west and north east

coasts it is usually confined to the months of July and August. The excellence of the climate and the kindly courtesy of the people make Korea an ideal country for travellers to visit, especially in spring and autumn.

Reckless Destruction of Timber

One of the most notable features of the landscape throughout Korea, and particularly in the more thickly populated districts, is the bleak and barrenbecause treeless-aspect of the mountains, which cover 71 per cent. of the area of the peninsula. "Give life to the mountains first," advised a Japanese official, "and you will give life to the Had it not been for the nation." destructive hand of thriftless generations these bleak slopes might be covered to-day, as they were in olden times, with a goodly growth of pine, oak, maple, ash, juniper, chestnut and birch, and rich with the vegetation of the temperate zone. In many parts of the country there are remnants of old forests which tell their own tale, not to mention the great undestroyed timber areas on the banks of the Yalu river and on the island of Quelpart.

Planting of Model Forests

It will take many years to restore the stony surface of the mountain sides to a tree-bearing state, but the authorities have taken the work energetically in hand and, as the result of their labours. green is beginning to replace grey as the dominant note of the Korean landscape, particularly in the vicinity of the larger cities. The good work was begun in 1906 by the creation of "model forests" covering a total area of 81,654 acres on the mountains near Seoul, Ping-yang and Taiku. These were planted with 18,000,000 saplings of pine, acacia, oak, larch, chestnut and cryptomeria imported from Japan. So keen was the immediate interest and cooperation of the people in afforestation that seven years later 310 seedling nurseries had been established in various parts of the country. It is safe to

predict that by means of scientific forestry many of the evils will be remedied which unforested mountains inevitably inflict upon irrigation systems, river conservancy and harbour works.

No complete or authoritative classification has yet been made of the flora of Korea. The traveller notes, as in Japan, a profusion of azaleas and rhododendrons and many varieties of flowering shrubs; also, as in Japan, he notes the scarcity of song birds. Other birds, however, notably wild-fowl, abound in great numbers.

Extinction of the Korean Tiger

For sportsmen, the mountains and forests of the northern provinces offer a happy hunting-ground equal to any in the East. The Korean tiger, especially when clad in his superb winter coat, is a noble quarry and probably the finest specimen of the feline race on earth. Since the acquisition of modern rifles by the native hunters, and as the result of a keen demand for his skin at high prices, this magnificent beast is becoming rapidly rarer in the inhabited districts; as many as 500 skins have been exported in one year from Wonsan (Gensan).

Leopards are plentiful, also bears, boar, several species of deer, beavers, tiger cats, otters, sable and marten, and a number of other valuable fur-bearing animals. The wild-fowl include swans, bustards, geese, teal, mallard, mandarin ducks, snipe and woodcock. The imperial crane frequents the rice-fields, together with pink ibis, herons, storks, egrets and other waders. The peregrine falcon (used by the natives for hawking) is frequently seen, also black eagles, buzzards and kites.

Notwithstanding the rapid developments which have taken place during the last fifteen years in mining, fishery and industrial enterprises, more than three-fourths of the population of Korca live by agriculture. Compared with the highly intensive type of farming which man's struggle with nature has evolved in densely populated China and Japan, the husbandry of the Korean tillers of

KOREA

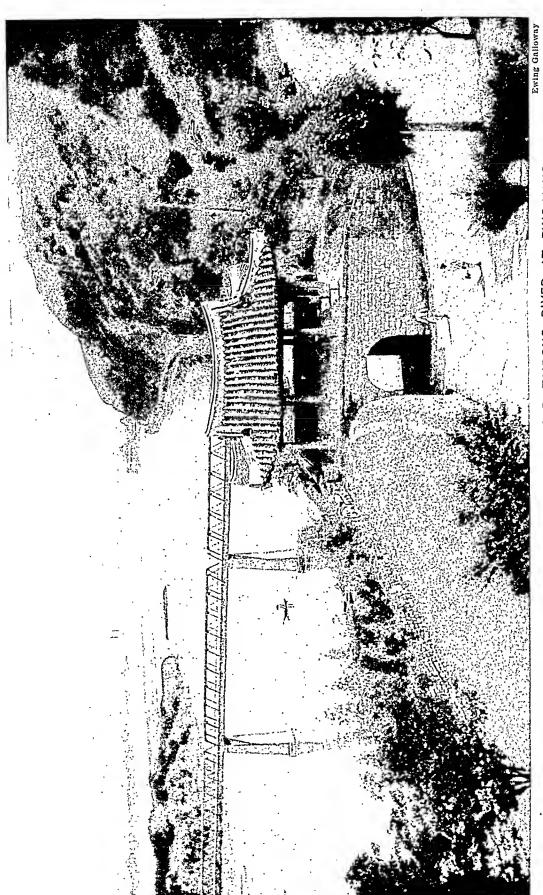


Ze &*** ***

WAGNIFICTHE MUTEUM 19 THE REFEUR PALACE, REQUIRED TO THE PROPERTY OF THE PROPE



MARROW ALLEY WITH ORE STOREYED HOUSES IN PING YANG.
At the lack of the case the case the case of the seaso very men, the case is a three sections ago. The native supports a creations ago with the case of the season which the body season with the lack of the seath the field with the field with the lack of the season which the decided date and the field season white the field with the lack of the season which the decided date and the field seasons white the field with the lack of the field with the lack



This bridge carries the railway from Seoul, which has two branches at Ping-yang, one leading to Chinnampo and the other to the coal-mine at Jedo. The river at the point shown is nearly three-quarters of a mile in width, but the middle portion of the bridge traverses the island of Yokakuto which lies almost in the centre of the channel. The river is not only beautiful, but is used as the main highway between Ping-yang and the towns and villages along its navigable portion, though only vessels of medium draught can ascend to the city THE BROAD TAIDONG RIVER AT PING-YANG MAGNIFICENT RAILWAY BRIDGE

the soil is inferior in its methods implements and execution

It must, however, be burne in mind that for centuries the Korean farmer has suffered from a lack of transportation facilities which on the one hand com pelled lum to be self-supplying as regards the necessities of existence, and on the other left hun indisposed in labour for anything beyond the provision il those neces ities. Thus the farmers of the north crew the cotton required for their clothing on land which given means of transportation might have been used to far treater advintage in the cultivation of beans or wheat. Also it was seldom or never part of a farmer s ambition to make money, because of the insecurity of viable wealth. I ven with his archaic implements and ship shod ways however the land produced good harvests of rice and beaus, the people's staple foods be id's milkt wheat barley telracco cotton ginging and other crops-enough as a rule to enti fy his own simple wints and the rapacity of the tax collector

1 Beparture in Agriculture

After the establishment of the Japanese Protectorate (1905) improves ments became to be made in the methods and products of the country's main industry proving clearly that much of the farmers listless conservatism was not the result of original sur but merely of instinctive adaptation to an iin healthy environment. Larmers all the world over like sailors are inclined to oppose new ideas but the Korein is showing lumself reasonably adaptable He is fully capable of appreciation for instance the merits of scientifically selected Japanese rice seeds whose yield is 30 per cent luglier than that of the native species or the superiority of American Upland cotton as compared with the nitive plant

Some idea of the stendy development of agriculture which has taken place since 1910 may be gathered from the fact that whereas in that year the area under cultivation was 6,000,000 acres it had increased in 1920 to 10 500 000, of which 3782 (e/g) actes were under rice. By the culturation of wist, had and an improved system of irrigation the surplus of rice, wallally for export in Japan increased nearly fourfold during this decale, and the potential expects to double the present output within the next ten years by bringing, more land into cultivation and by introducing securities irrigation into districts where the farmers have finded and the second of the s

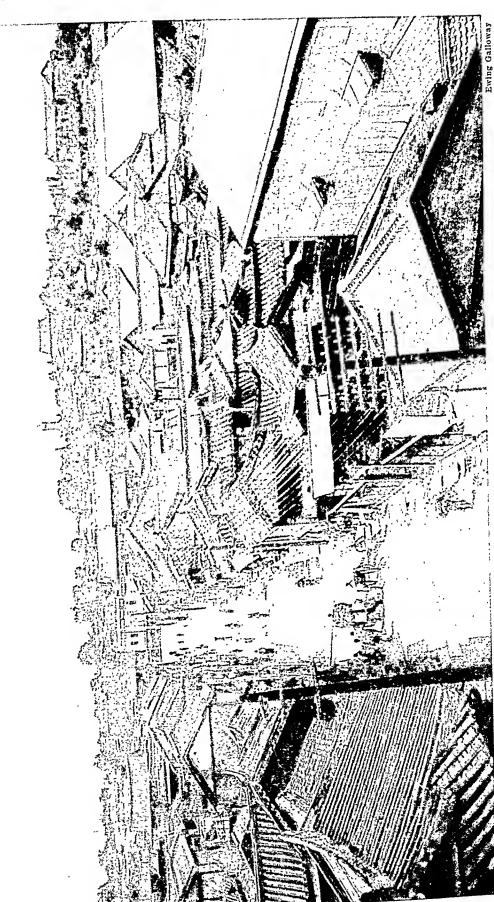
Paple talion of I rust 1 arming

Similarly following upon the introduction of entitle tolence cultivation and preparation by the model firms since 1005, the output increased from 19500 000 pounds in 1910 to 72 000 000 in 1915. Intally the preparation of ininstruction owing to improved methods and lightly from the climatic conditions would appear to indicate that before long, korea will become one of the chief will, producing, countries

In former times Kori's grew practically no fronts worth mentioning except walnuts chastnuts and persummens lint the experim ats carried out on a steadily merersia, scale by the govern ments model farm at Tuksum have shown that the characters admirably suited to the production of periupples and grapes of excellent quality so much so that there fruits already figure in the list of Korea's exports Between the years 1910 and 1920 a considerable number of Japanese have taken un land for fruit firming nt Lorea an industry m which they excel In 1920 the fruit crop raised was nearly seven times more than that of 1913

Where the Best Ginsene Grows

From time minemoral korea his been known and envied unong I astern peoples as the producer of the highest quality of ginseng a medicinal plant (Panax ginseng) to which the Chinese and to a less degree the Jip mese, have always attributed mysterious curative.



Ping-yang or Heijo, the oldest city and for centuries the capital of Korea, stands on the Taidong about 35 miles from its embouchure into Korea Bay. The city is connected by railway with Seoul and Chinampo, its outport. There are many coal-mines in the neighbourhood and to the west lies the largest and most city is connected by railway with the opening of a gold-mine at Unzan, have all added to the commercial importance of the town. The population fertile plain in Korea; these factors, together with the modern development of the city has not progressed so rapidly as at Seoul PING-YANG CITY OF OLD TILED ROOFS AND IRON BUILDINGS IN THE MIDST OF THE

and tonic qualities. In the days when Koren was still a vassal of Clinna a portion of hir annual tribute was paid in ginseng roots, and those which hore a forked radish resemblance to the human body (being therefore possessed, like the mandrake of special virtue) were set aside for the use of the emperor and his court.

China is still Korea's best customer for this venerated vegetable, its price on the Skringhai market being even times higher than that paid for the American variety. In 1902 the plants all over the peninsula were attacked by an unknown discuss which threatened to put an end to the trade. In 1905 however, the ginsing monopoly was transferred from the Imperial Household to the finance department of the government and energetic measures were taken to cheel and cure the disease. Since 1910 the production of high quality ginseng has rapidly increased, to the great relief of China's valetudinarians The production of salt by natural evaporation is another hierative government monopoly which has shown rapid expansion

Mining Discouraged by Dragons

No geologist has done in Korea work like that which Baron you Richthofen did in China, so that our geological knowledge of the peninsula is scanta We know, however, that all the higher mountain ranges consist of strongly folded crystalline selists and that they contain no small wealth of mineral deposits. The Korean people, like the Chinese, have never shown any desire to explore or exploit their mineral wealth, partly because of their fear of disturbing the sleeping dragons and subterranean demons of the lulls, and also no doubt because they realized that any wealth thus obtained would speedily be taken from them by locustlike officials "Placer" washing for gold and surface scratching for coal were the limit of their activities.

In 1906 foreigners were by law entitled to own mines in Korea, a proclege which continued until 1016. and a number of gold mining concessions were granted to American, British and French companies Of these, the only one which has produced gold to any considerable extent is the American "Ungan" mine in North Pyring an province. After the annexation, n number of Inpanese companies were organized chiefly for the production of coal and iron, and this enterprise has stendils expanded. Gold and big iron represented more than half of the total . other numerals produced were silver, zme, copper, lead tungsten and graphite Korean labour, though less efficient than Chinese, is sober and intelligent

Neglected Deep-sea Lisberies

The seas which wash the shores of Korea are very rich in fish of all kinds, some 200 species being known recent times however, the activities of Korean fishermen were generally confined to inland waters and the near scaloard, and their methods and appliances were primitive. The country's deap-sea fisheries were therefore the hunting grounds of Chinese poschers on the west coast and Japanese on the south. Since Korea became part of the Inpunese Limpire, mensures have been taken to encourage the development of the fishing industry in many ways and much progress has been made. The species of fish which figure principally in statistics are sardines pollack, bream, mackerel and cod

Doge un Article of Diet

Pastoral farming his never been highly developed in Korea, the Korean is by choice a flesh enter, but under the old regime his consumption of mert was of necessity limited to the rare occasions of marriage feasts or funeral ecremonies, whereat beef, pork and dog figured on the menu. The grass of the hills is not suitable for sheep, of which animal only a few lundred exist at the experimental farms. The native bull, a massive, handsome beast, is a prominent feature of village life. Until



SOLITARY SHRINE AMID THE MOUNTAINS NEAR KEIZANCHIN
Keizanchin is a small town in the province of North Kankyo on the Yalu river, which here
forms the frontier between Korea and Manchuria. North Kankyo, though it is one of the largest
provinces, is also the most thurly populated. There are valuable forests of pine, oak and chestnut
trees along the course of the Yalu, the timber being floated down the river

recent years it was bred chiefly for ploughing and transport work; since 1910, however, the number of cattle bred has greatly increased and a considerable quantity is exported to China and Japan. The Korean pack pony is a disappointing creature at best, the native pig an unsavoury animal, and even the hen is but a casual layer of insignificant eggs.

Korea has As already observed, always been, and is still, an agricultural country; for centuries the arts and crafts of the people have been limited to the production of the necessities of life, and very humble life at that. In 1911 the only manufactured articles on the list of Korean exports were ginseng and paper; since then, under of Japan's economic impulse activities, and with the aid of Japanese capital, a beginning has been made of factory enterprise and the organization The Bank of of industrial works. Chosen's report on the "Economic History of Chosen" lays great stress on these "salutary changes": and on the fact that between 1911 and 1919 the number of factories in Korea increased from 252 to 1900.

Some of us may doubt whether the man who makes seven factories grow where one grew before is necessarily a benefactor of the human race, and may wish it were possible for the Korean people to be left to till their ancestral fields instead of being brought into the crowded slums of manufacturing towns; but for good or evil their destinies are becoming more and more closely linked with those of the machine-made civilization of the West.

To-day, all over the country, commercial towns are springing up and growing fast, the bulk of the business being of Japanese origin and controlled by Japanese. In 1920, 135 companies had been established for industrial business, 157 for general commerce, 44 for banking, 81 for transportation and 49 for agriculture and forestry. Of all these only about 60 are owned and controlled by Koreans. In the list of manufacturing companies the most

important are those engaged in cotton growing, dyeing and wexting, ricecleaning, smelting, brewing and tanning, and in the production of tobacco, grs and electricity

The first railway in Korea, between Chemulpo and the capital, was originally granted by the King of Korea to an American in 1898 It was purchased by a Japanese syndicate in 1899 and the line was completed in 1900 Scoul-Fusan line was opened to traffic in January, 1905 Subsequently the trunk-line which traverses Korea lengthwase was completed by the construction of the Scoul Wiju section built by the Japanese army and opened in March, 1906 Altogether 1,350 miles of railway and 4060 miles of road now enable legions of travellers and traders to journey in comfort, where formerly pack pony and bull transport "wound slowly o'er the len "

The phenomenal effect of these changes is elevily reflected in Korea's recent trade returns which show an increase of about a hundredfold since 1887. Their stanificance will be the

more readily appreciated if the reader bears in mind that in 1887 Korea was still China's vassal; that Japan fought China in 1891, and Russia in 1904, for mastery of the pennisula; and that the country was annexed by Japan in 1910

It would be difficult to find a more striking example of the effect of improved communications upon the trade of a primitive people. Of Koren's oversets trade to-day roughly three quarters are with Japan and one quarter with foreign countries. Her clief exports are naturally agricultural products and her principal imports cotton and mere goods.

Seen through furopean exes, the dominant feature in the Korean s existence, whether in towns or villages is dirt. Of the rudiments of simutation he is completely and blasfully ignorant Around his dwelling garbage and offal are stream broadcast and its interior warms with vernim. Where streets exist they are bordered by open diethes, public receptacles for every kind of refuse, so that in summer a Korean town stanks to high heaven. Native



SITE OF AN ANCIENT STRONGHOLD OUTSIDE SEOUL

About half a mile from Mount Hakutun dal, one of the peaks of Hokugakuzan, are the rules of the Hokugakuzan fortress. The date of rection, is unknown, but it was repaired in 1931 and in 1911 extensions were made and a circumamblent wail constructed. Within the fortress were a granary, temple and a royal palace, but now only the foundation stopes remain

all of one type, a one-storey building constructed with a rough frame-work of poles, interlaced with millet stalks or brush and plastered with mud.

Throughout the country they are thatched with rice straw, and in the towns with heavy earthenware tiles; their windows admit a faint light through oiled paper. Heating is done with flues which run under the stone or mud floor from an oven outside the building. The universal demand for privacy is secured by protective walls or bamboo screens.

Seoul, the capital, is the largest city in Korea, with a population of about 271,000 inhabitants, of whom 60,000 are Japanese and 2,100 foreigners. Lying in a beautiful valley, sheltered by mountain peaks, it is surrounded by an ancient wall, now falling into decay, with eight massive gates built somewhat in the style of those at Peking. Under the old regime Seoul slumbered peacefully enough as the headquarters of a lotus-eating bureaucracy gathered around the goodly pleasaunce of the palace. But the last twenty years have brought a great wind of change, stirring the dead bones of the past, and with the railway have come many outward and visible signs of a political and commercial awakening, such as drains, waterworks, tramways and electric light.

The chief commercial towns on or near the scaboard, Fusan, Chemulpo, Wonsan, Gishu and Chinnampo, all reflect in their present-day characteristics the impressive marks of Japan's administrative and commercial activities, and the inhabitants include a considerable proportion of Japanese settlers. But the life of the Korean people still flows on in its old channels in many small burghs and market towns of the interior and in countless villages, far from the busy highways of progress.

As to the Korean people, observers are generally agreed as to their indifference to cleanliness in their homes, and a general disinclination to physical effort, born of moral inertia; but many have testified to the belief that, given a square deal and good government, they have in them the materials of an industrious and self-respecting people. Physically, they are taller and more muscular than the Japanese; intellectually, they have proved themselves as adaptable as any Oriental race.

Whether, as they increase in knowledge and self-respect, they will definitely accept their assimilation as Japanese subjects remains to be seen; for the Korean resembles the Irish in many ways and frequently in that attitude of mind which, despite moral inertia, is instinctively "agin the government."

KOREA:GEOGRAPHICAL SUMMARY

Natural Division. Part of the fractured tableland of north-east Asia, the ancient A steep dip from the peninsular backbone to the Sea of Japan, less steep slopes to the shallower Yellow The peninsula lies almost north and south and has almost the latitudes of peninsular Greece.

Climate and Vegetation. Although in Mediterranean latitudes, Korea has not a Mediterranean type of climate, but an east coast marginal type, with extremes of temperature from freezing point to 75° F. and with summer rains, limited in certain areas to the two hottest months. (Cf. New Jersey, U.S.A.) Like Japan, the natural vegetal cover is forest, much of which has been destroyed; this is now being restored with young trees from Japan. The trees are mainly pine, oak, chestnut, birch, all temperate in character.

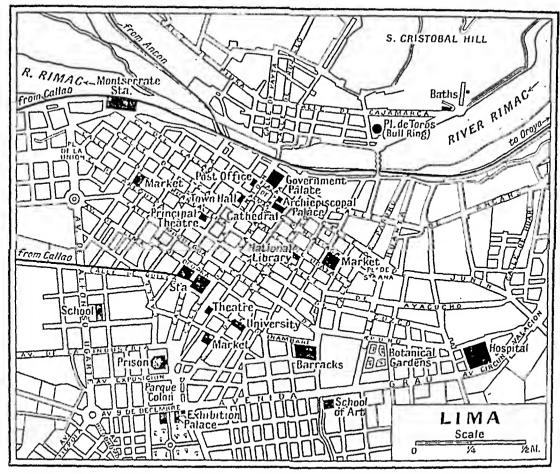
Products. Chiefly cultivated: cotton, tobacco, ginseng, beans and barley. Domestic animals of slight importance. Under Japanese tuition the area under crops is increasing, temperate fruit-culture and sericulture are being developed. Gold, iron, silver, zinc. Fish: sardines, herring, cod. Factories are being established for cotton, rice and tobacco.

Communications. Since 1910 the railway system—a trunk line with branchesand the eastern and southern ports have.

opened up the country, with a consequent growth in trade, mainly with Japan.

Outlook. Korea was an isolated area for political reasons; the Koreans dwelt in an "island of misery," they were afraid to progress. It remains to be seen whether they can develop a wise yea of their great. they can develop a wise use of their great natural resources under a less restricted regime in contact and in competition with the rest of the world.

Venerable & Romantic Capital of Peru by L. E. Elliott



STREETS OF THE ANCIENT CAPITAL OF SPANISH SOUTH AMERICA

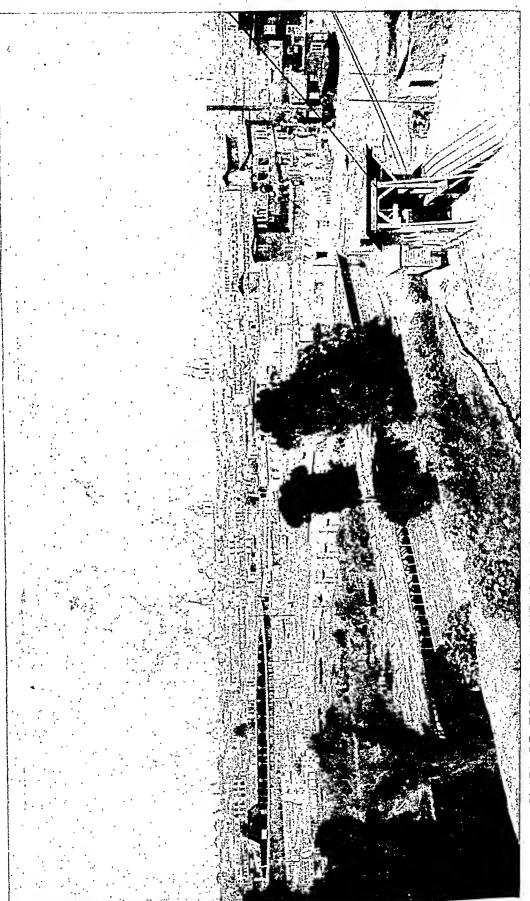
open roadstead of Callao, guarded by the bold rock of San Lorenzo island. displays the gentle incline of the vale. checkered by malachite-green fields, with the pale towers and flat roofs of Lima against the stark background of the Andes. Callao is permanently dishevelled, a poor doorway to such a country as Peru. But in less than half an hour you can reach Lima by train, by electric tramcar, or by motor along the old colonial "camino real." All along the valley of the Rimac, a river perpetually fed by the melting of Andean snows, are the remains of many a prehistoric mound. whose levelled summit was probably used as fort and dwelling of chieftains, while the interior sheltered the bodies of illustrious dead.

Half way between Lima and Callao you may see a modern residence, balconied, set in hanging gardens, built upon the 300-foot square top of such an ancient erection; the sides, almost vertical, are 25 feet high; sugar-fields surround it, and it was once used as a dwelling by Meiggs, builder of the Oroya railroad, Lima's 128-mile link with the famous mountain mines of Cerro de Pasco.

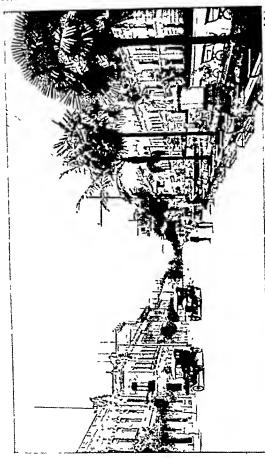
The modest outskirts of Lima, casual, careless, indicate little of the stately character that graces much of the old city. For Lima has dignity. It was founded by Francisco Pizarro in January of 1535, two years after the killing of Atahualpa broke, for ever, the spirit of the subjects of the Inca and handed an incredible empire over to the ex-swineherd. The great capital of the Inca empire was Cuzco, still a noble city; but Cuzco was too far inland, too much of an Inca stronghold. Pizarro preferred a new site near the sea. named this new Spanish capital the "Ciudad de los Reyes," the City of the Kings, i.e., the Three Kings, the Magi, because the ceremony took place on the



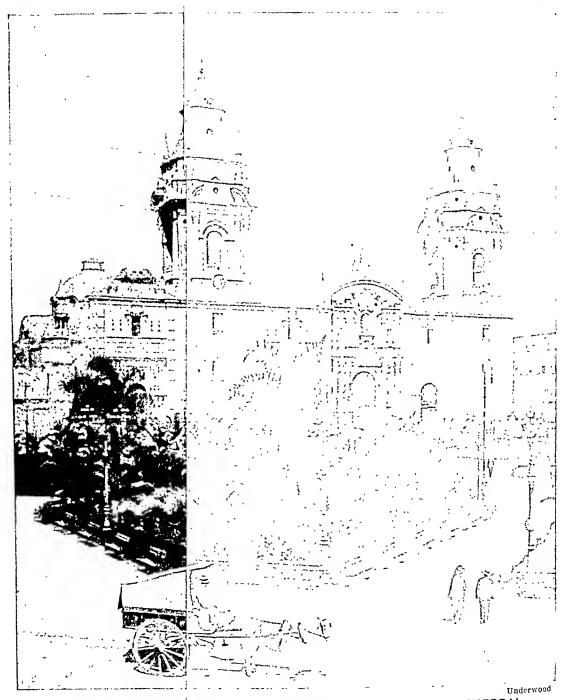
STREET FRUIT-SELLER WITH HIS WARES IN LIMA wooden panners in me the day from the surrounding dutiefully if the power people on donleys with wooden panners in me arous their lacks. The faults lack let of grapes, cange and ploagifes. The soil in the neighbourhood of Lima is cultivatable only on be directed, but the farms and ranches in the facilitation which you did not be neighbourhood to the cultivatable only on be directable, but the farms and



On the left of the photograph is the bull-ring which dates from 1768 and is one of the largest in the world, having accommodation for 8,000 spectators. To the right of the bull-ring may be seen the river Rimae, which is fed by the melting snows of the Andes and is a shrunken stream in winter and a rushing torrent in summer. The twin towers to the right centre are those of the cathedral and from the many domes and spires breaking the line of the horizon it can be well ECCLESIASTICAL BUILDINGS believed that Lima has nearly eighty buildings devoted to religious observances, though the population is only about 150,000 OF LIMA'S MANY THE TOWERS AND DOMES TOROS AND



manatons of the old coloudal days and more altractive than the abovey cement and aluerco of the molym by limps. The city was formerly we old, but The long Proce de Colon, with its troad roadways conserved by polong tree and statemy, is the fordens's drive and proceedings to an instance of the second for fined in South America. In the older stretts are to just of sold arealisms, with tempticiply carred out down and belonger, the first streets are to just of sold arealisms, and the process of the contract of solds are also and the contract of solds are also and the contract of solds are also ar RESIDENTIAL STREET OF LIMA spacious bouter and such as the Grau and Lorgrest avenues have taken the place of the ramparts DOWN THE PASED DE



WESTERN FACADE AND MAIN DOORWAY OF LIMA'S CATHEDRAL Dominating the Plaza de Armas, or Plaza Mayor, in the centre of the city is the massive cathedral with its twin towers. The cathedral was founded by Pizarro in 1535, but was destroyed by an earthquake in 1746 and reconstructed in 1758. It has double aisles and ten magnificent chapels, in one of which are the supposed remains of Pizarro, the conqueror of Peru

to Cape Horn, with Portuguese Brazil alone excepted. Lima became rapidly a rich and aristocratic city. To the splendour of the viceregal court, with its noble officials, the army that included king's guards, halberdiers and cavalry, was added the prestige of the Audiencia; the see, created in 1541, became an archbishopric as early as

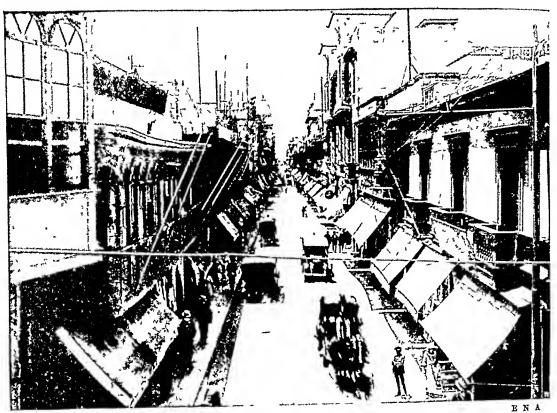
churches and cloisters; the University of San Marcos was founded in 1551; and the pomp and power of the Inquisition was established in 1570. Dazzling stories of the riches of Peru drew settlers not only from Spain but from all other parts of the Spanish-American colonies. There was a genuine base for these tales,

LIMA



LINE OF STALLS AND BOOTHS IN A SHADY PLAZA AT LIMA
Among the power people the shopping is larcely done at markets in the streets and plazas. Goods
of every description are displayed on the stalls, and in order that the effect of some of the articles
may be seen at greater advantage they are hung on lines stretched between the trees. The streets
in the older portions of the city are pasted with cobblections.

for Pixarro had actually collected and melted down over five hundred thousand pounds weight of gold of the Inca treasure, besides immense quantities of silver; and now Lima became the market for the precious metals from the mines of Upper Peru, with the silver hill of Potosi representing the dream of wealth at last come true. Little wonder that the eighty churches of Lima were sumptuously adorned in colonial days, that enormous houses were built by wealthy families, that silver dishes and platters and ewers were commonly used in every house, and that the finest porcelain and silks came from China to the City of the Kings. When, after Independence, Potosi fell



CALLE DEL MERCADO, THE MAIN BUSINESS STREET OF LIMA

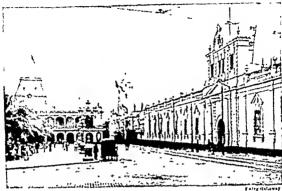
This street passes the cluef of Lima's four markets or mercados, which is considered to be one of
the finest in South America, not so much for the quality and quantity of the goods sold there as
for its size and general arrangement. Many of the city streets are served by electric trams, which
also go out to the suburbs of Miraflores, Barraneo and Chorillos

to the share of the newly-established republic of Bolivia, a tremendous new source of riches was found in the guano islands off the Peruvian coast; sugar, and the very fine cotton of Peru, have yielded later fortunes. So, while much of Peru is undoubtedly backward, there has always been wealth in Lima.

Of the gold and silver plate, the tapestry, the fine pictures and books, the silken embroideries and church equipment, the carved furniture, you may still see specimens in private houses of Limeños as well as in definite collections, such as that formed by the late Dr. Javier Prado y Ugarteche in Lima. But much portable treasure vanished southwards during the Chilean occupation of the Peruvian capital from 1881-3, during the War of the Pacific, when Chile defeated Peru.

Walk the older streets of Lima and you will find many reminders of stately colonial days. Here is the house of the Tribunal of the Inquisition, now the chamber of the Peruvian senate; there, the Convent of the Recogidas, to-day a school of art. This glorious façade with its carvings and ironwork balcomes was the mansion of the Marquis of Torre Tagle—it is now an academy of music and beautifully cared for. Most of these buildings are in their original condition, although the cathedral, lofty and handsome, was rebuilt after the earthquake which shook Lima in 1746, when five thousand persons perished.

If ghosts walk the old plazas, they are not the dark and mournful spectres of beautiful, bedraggled Cuzco; but here are the armour-clad shades of Pizarro and the Almagros; of that great viceroy Toledo, and his brilliant captain, Pedro de Sarmiento; they may be followed by the dusky shadows of those thirty-five youths of the Inca caste who were brought to Lima by Toledo and who died there. By the Inquisition may walk John Oxenham, friend and seacomrade of Francis Drake, caught in



POST OFFICE AND THE GOVERNOR'S PALACE IN THE PLAZA MAYOR
On the right of the photograph is the governor's palace, who has a formerly the resistance of the
syrron, and haven it is the church of N Debandar, while to the bit is the post office past which
runs the Cable de in Units, or Calculate India. The city exemption the hypotheceboal type
capital, while its Lie place, street considerate and right angles, and many character



EQUESTRIAN STATUE OF SOLIVAR IN THE PLAZA CALLED AFTER HIM Simon Ibolivar, called the Literator, was the dictator of Peru in 151-25, and resigned when the Spanish power had been broken. The Plaza Bodivar was formerly the Plaza de la Inquisidion, where the beautiful of the Department of the Literature were burn by the Inquisidion at the auton date. The university of San Marcos, which date from 1512 and is the obtact in Bootth America, Jacca upon this plaza.

LIMA 2492

Panamá on an adventure and burnt in Lima by the Inquisition in the auto da fé of 1580; here, close to the viceregal palace, one might see the noble-hearted Prince of Esquilache, grandson of a saint; and in some conventual corner the veiled figure of a saint herself, the famous Santa Rosa de Lima, the only canonised woman of the Americas. These two straight-backed officers may be the Spanish captains, Jorge Juan and Antonio Ulloa, authors of the illuminating Noticias Secretas; that blue-eyed dignitary, Ambrosio O'Higgins, the barefoot errand-boy of Ireland who ended his wonderful and efficient career as Spanish viceroy in Lima.

Lima's Colonial Charms

The charm of Lima, to the visitor of to-day, is more apparent when the eye is accustomed to the dim colours of the older streets. By contrast, there are numbers of bright, pale-painted new houses all along the Paseo de Colón, with its Zoological and Botanical Gardens and a cheerful restaurant at the near end, and the tragic statue of Bolognesi at the other. You must see the great Plaza de Armas, with its sides measuring each 510 feet; two are occupied by the cathedral and the official buildings; on the other two sides are colonnades. The friendly Club Unión is housed above a group of these porticoes. To my mind. the prettiest of the smaller gardens is the Plazuela de Santa Ana, but there are delightful inner patios in the University of San Marcos.

Exploring a Peruvian Menu

The principal street of Lima is the Calle Unión, neither wide nor beautiful, but furnished with good shops and many foreign business houses—for Limeños, even to-day, are disinclined to commerce. Here you can buy huacas, charmed objects from the ancient graves and fine bits of old textile and gold-stuff; and in the afternoon you can drink the tea to which Lima is now addicted (forsaking the once beloved maté) at the Palais Concert. There is

no good hotel in Lima as yet; but a huge hostelry is being built. Anything more dismal than an "inside" room, with no hot water and the electric light out of order, upon a day when the garua prevails, I have yet to encounter in Latin America. But the food is generally good: in the restaurant you should choose the Peruvian dishes—the puchero soup; the fish of the coast, pejerrey, bonitos or corbinas; eat an empanada, a glorified Cornish pasty; and remember in studying the menu that an "alligator pear" is in Peru a palta, and that maize cobs, delicious when tender, are in Lima choclos. The sweets, dulces, are excellent, and there are some very passable Peruvian wines.

Lima is the commercial centre of Peru as well as its capital, which is not always the case with South American capitals. Besides this it possesses several manufactures. Its potteries, for instance, produce fascinating models of animals and the like, strangely reminiscent of the prehistoric ware of the country, and there are establishments for the manufacture of paper, soap and textiles, tobacco, sugar and cocoa, as well as the copper and silver articles that one might expect.

Winter Exodus to Miraflores

Lima has, during recent years, spread not only to the Paseo de Colón, but in winter months removes to the warmer climate of pretty Miraflores, five miles away, to Magdalena, to La Punta, Barranco and Chorrillos: and even, 30 miles journey, to Chosica, situated 4,000 feet high in a nook of the mountains.

These resorts are for the well-to-do. The undercurrent may be seen all the year round, at the public market, for example, or at the Sunday stalls of the Avenida Grau; here are the Negro and Chinese, introduced four centuries ago, and the apathetic, gentle, dark-skinned, black-haired folk to whom the Inca was once a divine king before the first stones of Lima were laid, and who knew the passing of empires even older than that of the Inca.

LISBON

Portugal's Capital on the Tagus

by Edgar Prestage

Professor of Portuguese Literature and History at London University

OST foreign travellers approach Lisbon by sea, but all should do so. He who comes by rail from Spini enters by the brick door, and thought this opens into the heart of the city, it is the exit from a tunnel a mile long. Moreover, the outskirts on that side offer no special interest, save for a glimpse of the great aqueduct curried on lofty arches over the Aleaniara Valley and dating from the right of John V, the king who also built the palace-monastery of Mafra, a Portu guese Escurial, and imitated Louis XIV in art and pleasures.

The Tagus in its lower reaches is one of the great rivers of Lurope and if Constantinople has an equally beautiful approach, no capital can borst so imposing a position as their of Lisbon, the fabled hills of Rome are mer mounds compared to hers which would put a severe strain on the pedestrian in a hurry (usually a foreigner), were it not for the cars of the Electice Tram Company, a British undertaking

Fine Sea Approach to Lisbon

He who journeys from England to Portugal by sea has a passage of less than three days and need not fear the Bay of Biscry, for he goes outside it Rounding Cabo da Roca, the westernmost point of the Continent, the vessel an hour later passes Cascaes, a fashion able bathing place with a citadel where King Carlos, friend of the English King Edward, used to spend the autumn I can see now his towering figure walking down the quay with the Margins de Soveral to board the yacht "Ameha," carrying a large briar pipe, for he was a terrific smoker, and greeting acquamtances with a cordiality equal to that of hts English cousin

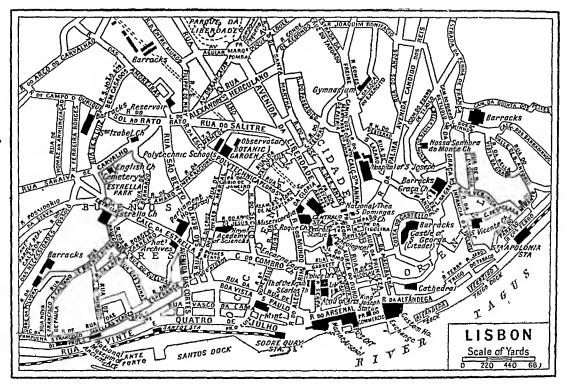
Copyrighted in U.S.A., 1923 by The Amalgamated Press (1922) Lamited

Mont Estoril, known as a pleasant winter resort eliesper thin the Riviera, is but half a mile farther on, and opposite to it ships describe a crooked course to get over the bar and pass between the Castle of St. Julian on the north and the Tower of Bigio on a sandbank, usually covered with water, to the south

The Golden Sanded Tagus

It was at this spot that in March, 1650 Blake's fleet, when attempting to force its way into the river to attack the semadron of Princes Rupert and Maurice, which had taken refuge there was brought to a standstill According to an Luglish contemporary account, the wind failed at the critical juncture but the Portuguese classic D Francisco Manuel, also an eve-witness, declares that the fire of the forts checked the Croinwellian admiraf The Anglo Portuguese war did not last long, and it was one of the rare occasions when the alliance between the two countries the oldest in history, for it dates from 1386, suffered an interruption

At the entrance the "golden sanded " Tagus is a mile wide, on either bank are low hills, covered with verdure in winter and flowers in spring but burnt and brown in summer. On the north bathing places succeed one another. their gaily painted houses bordering the water and climbing the slopes, behind them the ground undulates until it reaches the lofty Cintra range, serrated agamst the sky and crowned by the Castle of the Pena, from whose grounds King Manuel I, "the Fortunate," is said to have watched the caravels of Vasco da Gama return from the discovery of the sea route to India in 1499 The results of thus achievement have been summed up in the oft-quoted



LISBON'S STREETS CLIMBING THE HILLS ABOVE THE RIVER

words "the face of Europe was turned from east to west, and Lisbon supplanted Venice as the world's mart."

The southern bank has few buildings of note, the most conspicuous being the Lazaretto, of ill-fame when yellow fever raged in Brazil and home-comers from what was Portugal's greatest colony had to spend three idle weeks there before landing. It was formerly a fortress, the Old Tower, and crossed its fire with that of the Tower of Belem, a gem of Manoeline or floreated Gothic architecture. Within a stone's throw of this latter guardian of the port lies the Teronymos, built in the same style as a thank-offering for da Gama's success. In the church rest Vasco da Gama and Camoens, "greatest poet of the Spains," and in the Chapter House Herculano, Portugal's leading modern historian; while in the cloisters, with their windows of lace-like tracery, hundreds of boys disport themselves noisily, for the monastery is now an orphan asylum.

Fittingly enough the figure of Prince Henry the Navigator, founder of modern discovery, surmounts the main door of the church, while a statue of Affonso de

Albuquerque, conqueror of Goa, Ormuz and Malacca and one of the greatest names in Asiatic history, stands on a tall column by the waterside in front. *Hard by is the Museu dos Coches, where royal carriages, dating from the seventeenth century to the end of the nineteenth, some with panels painted by famous artists of France and Italy, are preserved and form a unique collection. Many of them are very cumbrous, and used to need four horses to drag them up the breakneck streets; even then they went at a slow pace and with frequent halts, as I remember when President Loubet visited Lisbon.

Three or four miles farther up from Belem the true gateway of the city, the Praça do Commercio, opens out, a quadrilateral flanked on three sides by imposing colonnaded government buildings. For centuries it was known as Terreiro do Paço, because before the great earthquake of 1755 the royal palace stood there, but the English call it Black Horse Square from the equestrian statue of King Joseph which occupies the centre. Apart from his skill as a turner, this monarch was a

poor creature, overshidowed by the Marquis of Pombal, one of those eighteenth entury ministers whose despotic rule undermined the monarchical systim they served and almost deiffed, but it would be injust to deny him the credit for achieving nuterial progress.

Opposite this square the Tagus with us out into a big capable of containing a large part of the British fleet, and across it, in the ibstance, rise the Arrabsh mountains and the rock of Palmella, crowned by a grim cistle, once the scat of the Order of Santiago.

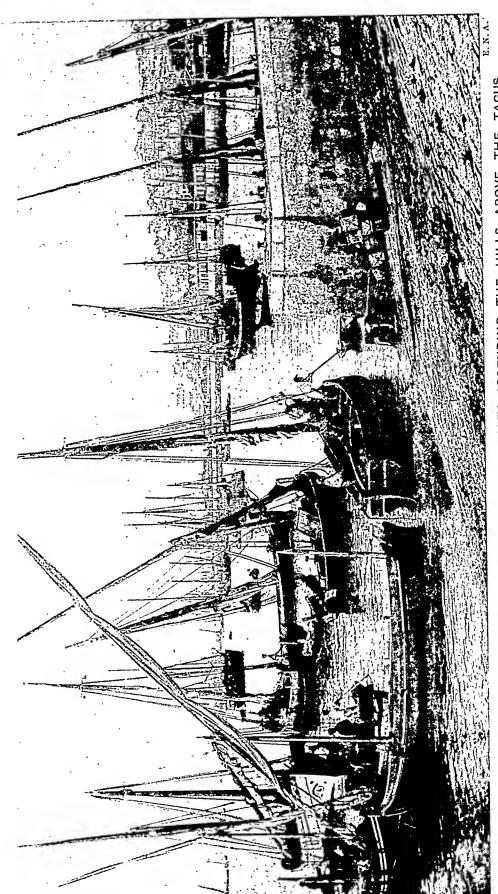
Bluck Horse Squire is the proper and traditional cutrance to and exit from Lisbon, there Catherine of Braginza emburked for Portsmouth to well be viewed in Dirk Stoep's engravings, there King Carlos Linded one Lebrary afternoon in 1708 to the with his son at the braids of his own people. Some of the river steamers start from the square and at all hours it is traversed.

by a motley crowd; employees of the various ministries; smrt officers; thuck-set, whiskered farmers and peasants from the Aleintejo with wide brimmed librek, felt hits, boleros, coloured sashes and tight fitting trousers; birefooted fisher girls of graceful carriage carrying braskets on their heads; peasant women with bright wild, handle reliad's over their limit and gaidy, thick, ample skirts. These litter lend a colour to the either which would otherwise be licking, because the miss of the infirithinants of both saves thresser in black.

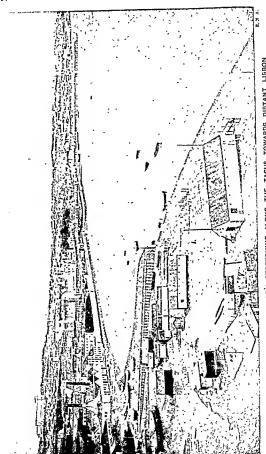
From the square rectangular streets run north along the flat ground between hills of the Pombrihue city, so called from the minister who directed its rebuilding after 1755. The principal are Gold and Silver Streets for the various trades each hild their own artery silver Street debouches after hild a mile into a smaller square, the Rocio—Rolling Motion Square, from the wives marked out in the tesselited pracment



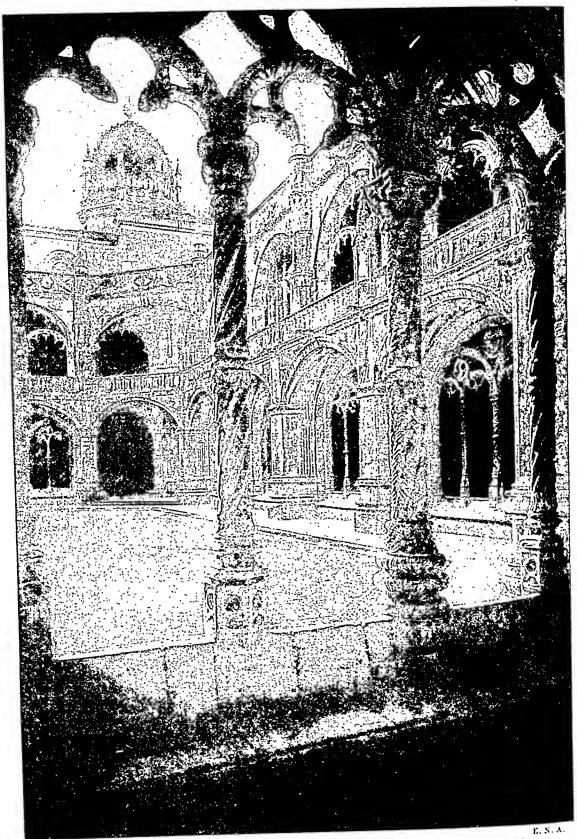
COBBLED LARGO DE SANTO ESTEVAO IN THE EAST END OF LISBON SI Slephen's Square in the equality periods of I bloot Orental round about the docks. The III passed and often drep street, specifically lighted at light by occasional gat a lamp set in iron trackets at the street corner, or with the unstanuor lood ing houses ornamented by festoons of dings linen, are in complete componence with the unstant of the light described by the street corner, or this dubton quarter.



Lisbon is an important fishing centre with a large fleet of smaeks and trawlers. The harbour is one of the finest in the world and lined with several miles of quays, fully equipped with hydraulic eranes, doeks, warehouses, slips and railways. On the south bank are the government and privately owned doeks, and a wireless sulp and enormous wealth accrued from the discoveries in America and India, and show received. The city replaced Coinbra as the capital of Portugal in 1260 and enormous wealth accrued from the discoveries in America and India, making it the richest city in Europe. Among the industries are ship-building, sugar refining, the manufactures of textiles, and gold and silver work THE TAGUS CITY ASCENDING THE HILLS ABOVE THE ΒY FISHING VESSELS IN THE HARBOUR

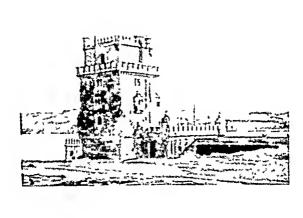


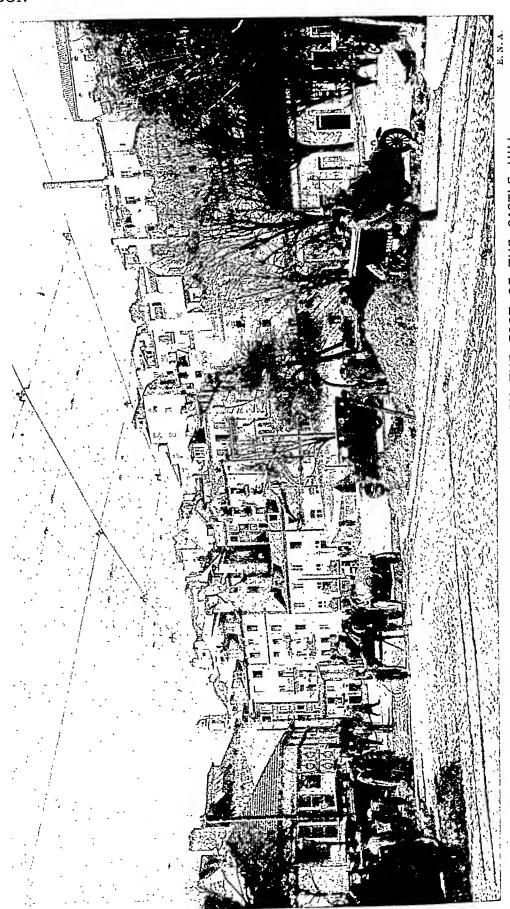
AJUDA AND BELEM STRETCHING ALONG To the left in the photograph is the palace of Ajuda on the heights above Beform; the pans of the Tagya are the convent and church of the Jerostrons, in the wast wing of the Taggas about nite miles from its mouth. The cry and its suburbs are built on the fights about nite miles from its mouth.



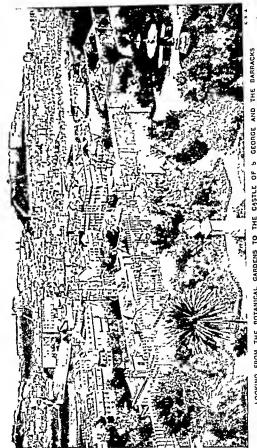
BEAUTIFUL CLOISTERS IN THE CONVENT OF THE JERONYMOS

Belem is a suburb of Lisbon and contains the convent of the Jeronymos, founded in 1499 to commemorate the voyage of Vasco da Gama. The edifice is of fine white limestone in the floreated Gothic or Manoeline style and the graceful columns, exquisite tracery and beautiful groining of the cloisters, the masterpiece of João de Castilho, make them the main glory of the convent





ict and many of the steep, narrow streets and tortuous alleys have about them something he most prominent feature of the Alfama. It was the old Moorish citadel and indicates Lishoa Oriental is an alternative name for Alfania, the old portion of the city, which is in the east and represents the old Roman and Moorish quarters of Lisbon. PART OF LISBOA ORIENTAL, OR THE OLD The great earthquake of 1755 did comparatively little damage in this district of their medieval aspect. The Castello de São Jorge, on a rocky hill, is the



On the height called the Amailai to the little of the Cartelo de No. Jage exclassion from a trace of the respect and expension for an accordant as a stretch and extension of the called and the called a and interior are rec'ly efectuated with martie and it e nave to rec'ed with barrel validing THE BOTANICAL GARDENS TO THE LOOKING FROM

To the north of the railway station begins the broad Avenida da Liberdade. a mile long, lined by handsome stone houses and gay with palms, Judas trees, grottos, streams and beds of salvias; it connects with many newer avenues, whose breadth however, forbidding shade, is hardly suitable to a city where the sun shines for ten months out of twelve. The Edward VII. Park (now Parque da Liberdade) commemorated the visit of that king, who was received with "mad enthusiasm," to use a Portuguese phrase; although the national character is sad, as poetry and folk music prove.

The lines of an opera,

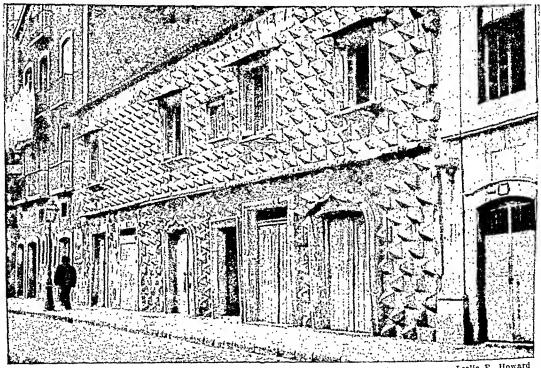
"Les Portugais sont toujours gais,"

are the reverse of the truth, save on a "festa" day when their spirits rise like the rockets they love to let off to advertise a bull-fight, only to fall as quickly. Certainly the people have small cause for gaiety since they are very poor; but then poverty is easier to bear in a climate comparable to that of California, where little food is needed to

support life, and in fact smiling faces are commoner in the Lisbon streets than in those of London.

As I have mentioned the national sport, whose Lisbon home is the bullring at the Campo Pequeno, I must explain that it differs entirely from the Spanish variety; the bulls have their horns protected, and neither they nor the horses are killed, but sometimes it happens that one of the "pegas," who surround and seize the bull after he has been wearied, pays for his daring. Bullfighting as practised in Portugal develops the qualities of physical courage, resource and quick decision, and in Lisbon at least it offers a fine spectacle. Football has also become popular; it is even played in summer, and the Portuguese have shown that they can beat good English teams.

If we return through the Rocio to Silver Street and take the Graça tram, it carries us up past the Norman towers of the cathedral, whose first bishop after the capture of the city from the Moors in 1147 was Gilbert of Hastings, to the



Lealle E. Howard

FACADE DOS BICOS, SHOWING THE POINTED STONES OF ITS CASA This peculiar house, built some four centuries ago by Braz, the son of the celebrated navigator and explorer, Assons de Albuquerque, is known as the Casa dos Bicos, or "House of the Points." Its early history is not known, but it once formed part of a nobleman's residence and survived the earthquake of 1755. It is actually a warehouse, the upper part serving as a family abode

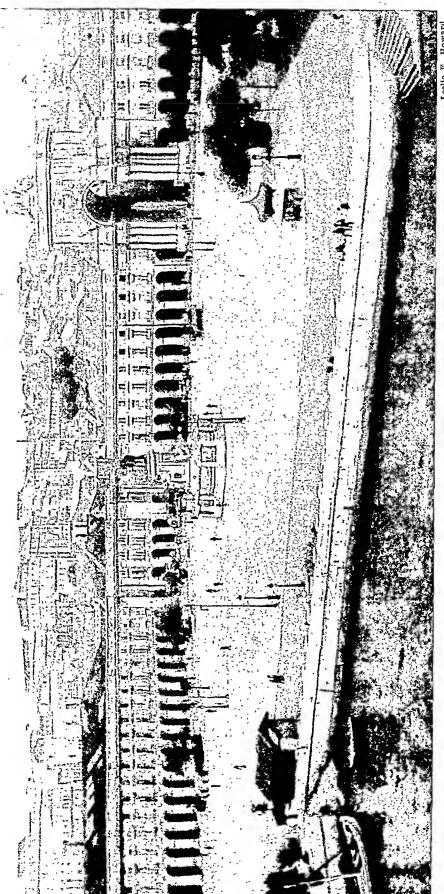
LISBON



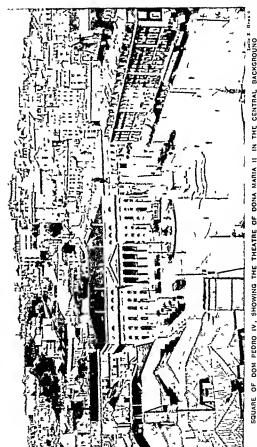
WEST FRONT OF THE SE PATRIARCHAL LISBONS CATHEDRAL In and in 150 the caticital was tell it in 150 the caticital was tell it in 150 the city take. It will the only rich file of it at collection in 150 the caticity are in 151 the 151 the caticity in 150 the caticity i

massive monstery of S Vincent out side the wills which contains the tombs of the Briganzis. King, Carlos and his son at one time could be seen through the glass let into their coffin lids and D Ledro I mijeror of Brizail a small strurkent guire with a white beard used also to be visible, but his body was at last translated to his nature I and with every much of honour. From the

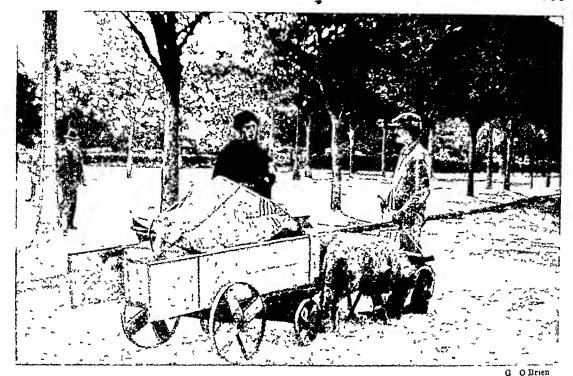
esplanade in front of the Graça church a magnificent view (f. 1840 an and the surrounding country is obtained le no one should miss it. The city is famed for its prospects rather than for its buildings and mother vintage point is the rumpart of the castle on a hill near the Graça, a royal residence in the Middle Ages, whose ancient walls are now disfigured by high burracks. At the foot



The calamitous carthquake of 1755 did serious damage to Portugal's capital, laying half the city in ruins and causing the death of some 40,000 persons. Most of the public buildings were rebuilt by Santos de Carvalho, and the government establishments surrounding the Praga do Commercio on three sides—the fourth and south side is bounded by the river Tagus—all date from the latter end of the eighteenth century. This spacious square is popularly known among the English as Black Horse Square, the title having reference to the equestrian statue of King Joseph I., which was erected to the king by his people in 1775 LOOKING ACROSS THE TAGUS AT LISBON'S PRINCIPAL SQUARE, PRACA DO COMMERCIO, AND THE GOVERNMENT BUILDINGS



The chedicate of Personstand on the cost, an Italona, the epithat on Pepren who yathe Tawar in the with lives for large and an analysis of the car. The carry person the form, and a singularly improved expect those the car. The carry person the form and the family in the honory events of low green this presents a singularly improved expect those forms are contained for paid, provincially and persons a family provincially and persons a family provincially and persons are contained to the contained of the family persons are contained to the contained of the family persons are contained to the contained of the family persons are contained to the contained of the contained to the co the curious and Inling design of its measile parement of with the easy remaining portion is seen to not the tage of the state of this Peter



STRANGE CART DRAWN BY RAMS IN THE STREETS OF LISBON

On church festivals and holidays, when the country folk come into the city, the streets in the town are full of interest. The bright shawls, aprons and scarves of the women together with the broadbrimmed hats and coloured sashes of the men add to the gaiety of the scene. Lisbon has been called the most beautiful city of Europe after Naples and Constantinople

are the tortuous streets, the narrow courts and alleys of the Moorish city, districts known as Mouraria and Alfama, a maze of buildings without adequate drainage or air, yet picturesque and interesting to explore. Consumption is rife in Lisbon, but epidemics are rare; the sun disinfects and the people seem proof against their surroundings by the use of centuries; moreover, by its configuration Lisbon is a windy city, and the breezes from the river and the Atlantic give little rest to microbes.

Descending to the lower city we walk up another hill, since here the tramway does not help us, to the Rua Garrett, short and narrow, but the most fashionable of Lisbon arteries, its Bond Street. Here are the best shops, and here in the afternoon men of leisure stand for hours gossiping and observing the ladies, who are noted for their fine eyes and teeth and abundant hair, while others turn the chemists' shops into clubs and discourse with the assistants as they make up prescriptions. I always had doubts about presenting

one containing strychnine, but no mishap ever occurred; there chemists are able to do two things at once.

The habit of afternoon tea, introduced from abroad, has led to the opening of smart tea shops, but an old-fashioned Portuguese, though he may drink many cups of coffee over eternal political discussions in the cafés, will eat nothing between lunch and dinner; too, because the climate does not aid digestion; again, no one who values his health takes water or milk that have not first been boiled. In addition to several teashops the Rua Garrett, named after the founder of Romanticism who had Irish blood, has three churches; all are well kept and filled, for the practice of religion is reviving among this people, once most Catholic, which carried the Cross over the world and still bears it on the flag, together with the pieces of silver for which Christ was sold. churches are the Martyrs, originally built for their dead by the French and men of Cologne who took part in the siege of 1147—hence the name, for they

fell fighting the Infidel; the Encirnação, with a beautiful statue of the Blessed Virgin by Machado de Castro, and the Loreto for the Italian colony

If we would see a Gotho'c turch, we must mount further on the right to the runned Carmo now the Archaeological Museum, it was built by the Holy Constable Nuno Alvares Perura, Jounder of the House of Brajanara who has latch been beatified. Off the Rua Garrett to the left, the splendst Library, a will managed institution with its own press occupies the old convent of 5 Urancisco, which once howed goe fectors. The religious orders who hold so large.

a place in the history of the country. have been expelled and the teaching of religion is not allowed even in a private school, though the vast majority of Portuguese are nominally Catholics The ratio of illiterates, 75 per cent , is said to have been nicreased of fate because attendance to primary schools though nominally compulsory has fallen off. This fact is not so deplorable as it would seem for the numstructed country folk are found by experience to be as a rule morally better than the partially edicated people of the towns trush pothuse could exceed the devotion of good Portugues servants,



LIFT FROM THE RUA DA SANTA JUSTA TO THE LARGO DO CARMO Llettrle and hydraul e lifes have been installed at eight points in Lisbon where the streets are too steep for trains. A covered passage leafs from the pallorment the top of this little what over roofs and courts to the Largo do Carmo close by the ruins of the Cothic church of Carmo, erected in 1389 1421 courts to the Largo do Carmo close by the ruins of the Cothic church of Carmo, erected in 1389 1421

who often can neither read nor write. A noble bronze statue of Camoens stands in a square at the top of the Rua Garrett; higher up, another street leads to the ex-Jesuit Church of S. Roque, where S. Francis Xavier preached before sailing for the East, and to the Misericordia, maintained by a weekly lottery. Retracing our steps to the square and passing Camoens on the left, we descend into a valley to S. Bento, another old monastery, now the home of the chambers and of the rich national archives, and mount again to the domed basilica of the Estrella, the first church built in honour of the Sacred Heart.

Grave of an English Novelist

Facing it is one of the beautiful municipal gardens, and behind it the English Protestant church of S. George and the cemetery with its aged cypresses where lies the novelist Fielding; he went to Lisbon for his health, as was the custom in the eighteenth century, especially in consumption cases, and there died. S. George has been the patron saint of Portugal since the beginning of the fifteenth century when John I. married Philippa of Lancaster, daughter of John of Gaunt; he once held a commission in the army and in effigy rode in religious processions.

The National Museum of Ancient Art at Janellas Verdes deserves mention, not for itself but for its contents. Probably all are aware that Portugal produced marvels of ecclésiastical gold and silver work, many of which are here; connoisseurs value the eighteenth century furniture of the John V. style, but few know that in the fifteenth century a school of painting existed influenced by Van Eyck, yet distinctive and national.

Social Service of the Theatres

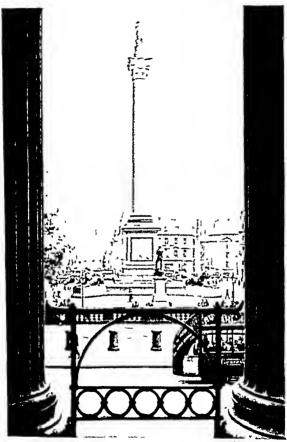
I have said nothing of the theatres, and yet in the eighteenth century Lisbon had the best opera in Europe, maintained by the wealth that came from Brazil; and S. Carlos keeps something of its old traditions, for the Portuguese are lovers and keen critics of music. The opera house and the theatres perform a social service unnecessary in northern countries; save at the seaside, young men and girls of the upper and middle classes have few opportunities for social intercourse, since dances and dinners are rarely given and a man may not call on a lady unless he be a blood relation, but at the play the intervals are long, perhaps purposely so, and men can talk with their lady acquaintances.

One of the most interesting features of the city is the street venders and cries. First come the fishwives, who, as they walk, advertise their goods in a voice to wake the dead, and when summoned from the windows to display them, haggle over the price until a bargain is struck. This is sometimes a long business, but time is of no importance in this sunny land. Then there are the scissor-grinders with their musical call, the sellers of pineapples, which are suspended from a pole carried over the shoulders, and above all the venders of lottery tickets, which never lose their attraction for the poor people.

Easy Time for the Housewife

Not so long ago the cows were paraded and were milked before the doors of their customers, which prevented the fraud of watering, while turkeys are still driven down the streets by a man with a long bamboo having a bit of rag fixed to the end, and the purchase is killed by the cook and prepared for the table. The same process is used in the case of chickens, though these arrive cooped up in baskets covered with netting and are borne on the shoulders of the seller.

Lisbon housewives are seldom overworked, for either provisions are bought at the door or they are fetched from the market at the Praça da Figueira by the cook and paid for in cash, so that no bills are run up. This enables the ladies to devote more time to personal adornment, on which both sexes spend much money, time and trouble.



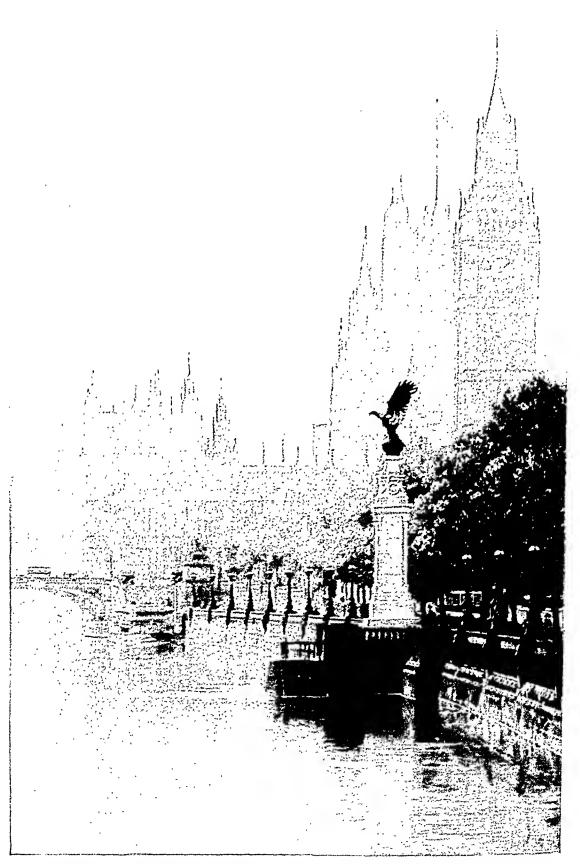
108008 I rent the terrace of the National Gall rs on s c Irafil, ar Spiare, Nelsen's Column II latel all Bio Ben't cer 2509



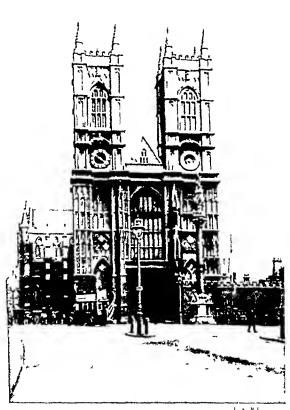
LONDON. Trafalgar Square, on the site of old Charing village, was laid out 1829-67. The church is S. Martin's-in-the-Fields



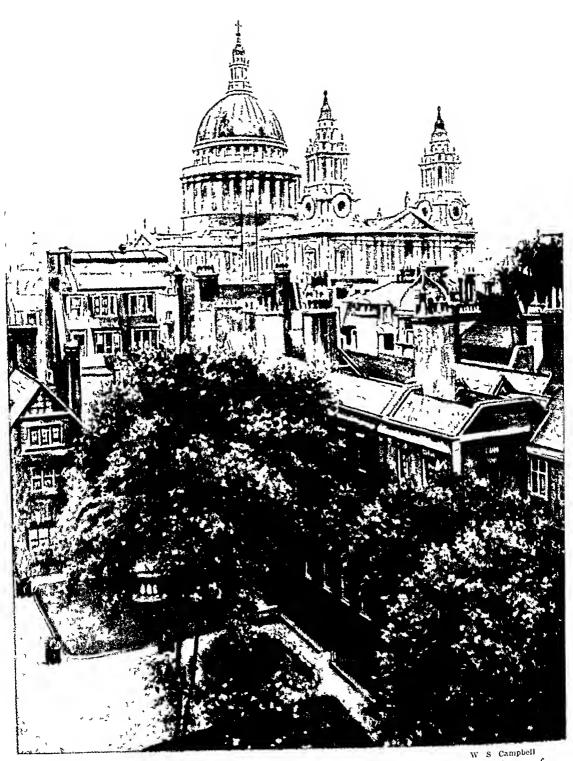
LONDON Near where the Strand joins Fleet Street, S. Clement Danes, built in 1681, slands in the roadway by the Law Courts



LONDON. The eagte on the Air Force Memorial spreads its gold wings above the Embankment near the Houses of Parliament



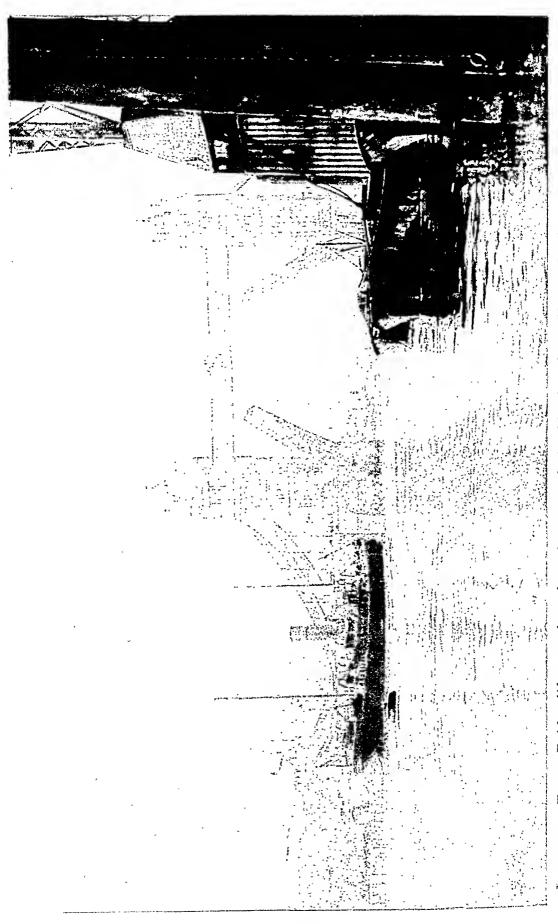
LONDON Hestminsters of y all v is it it front from Victoria Street the locus d sign the fire cer finished in 1740



LONDON. From the house-tops in Old Bailey there is a view of Amen Court which houses the Canons Residentiary of S. Paul's

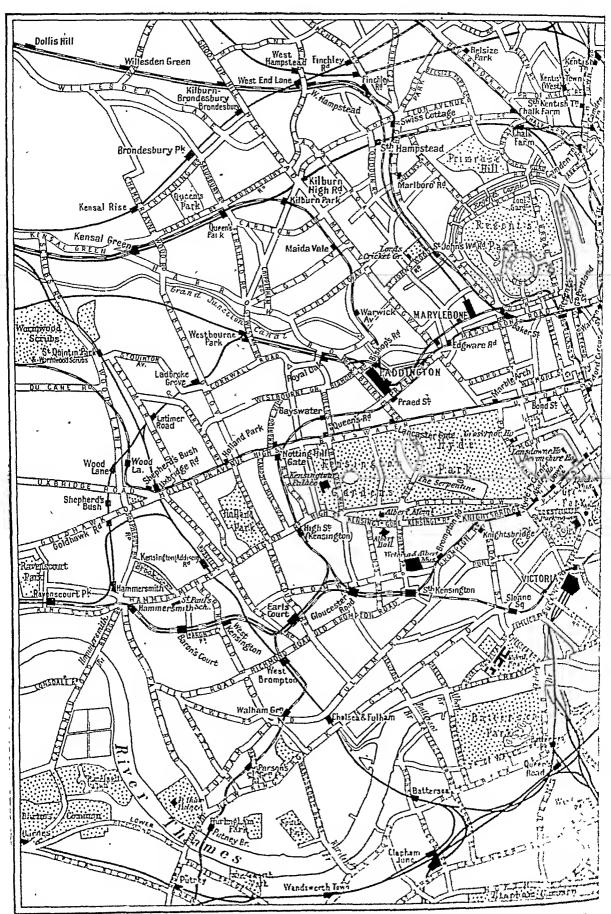


LONDON Named after its square four turreted leep, the lover has been in turn fortress, prison and palace and is no v a barrael's

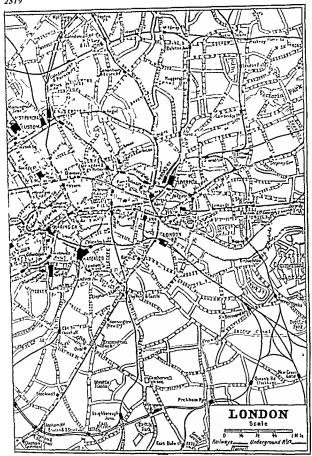


London. Tower Bridge lifts 200 feet of roadway to admit shipping from Upper Pool. Long reflections writhe together in a sheen of oil, and the City's miasma of smoke and river mist is over everything

The Greatest City in the World by The Very Reverend W. R. Inge, DD.



MAIN ROADS AND RAILWAYS OF THE BRITISH EMPIRE'S HEART-



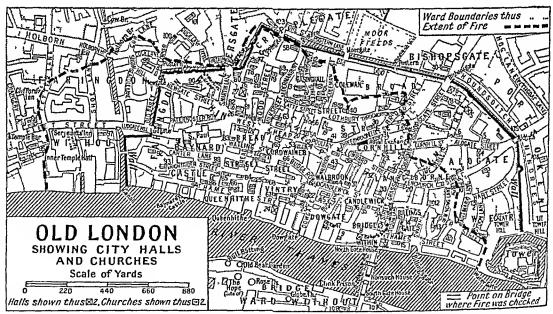
-THE UNORDERED TANGLE OF LONDON'S VITAL COMMUNICATIONS

was for a time the residence of the Lord Mayor. The old bridge was sixty vards lower down the river than the present structure, begun in 1825.

London in the century before the Reformation had become one of the most beautiful cities in the world. Not even Oxford, or Florence, cities which are visited by pilgrims from all civilized countries, gives a richer picture to the eve than did the old City of London before the fire, and still more before the destruction of the monasteries in the reign of Henry VIII. The narrow streets of "East Central" London, now sacred to the worship of Plutus, the god of wealth, were then flanked with the splendid colleges of religious communities. S. Martin's-le-Grand, a house of secular canons, was founded, near S. Paul's, by a grant of the Conqueror.

The Austin canons came in the reign of Henry I. They owned S. Mary Overy on the Surrey side, where their church became Southwark Cathedral, S. Bartholomew in Smithfield, outside the city walls, and Trinity, Aldgate. The prior was ex-officio alderman of Portsoken. The Austin canons established almost the first hospitals in London.

Then came the Knights Templars, a proud. wealthy and gallant corfrom poration, suppressed The Black Friars motives in 1314. (Dominicans), the Grey Friars (Franciscans) and the White Friars (Carmelites) established themselves in the thirteenth century. Their names survive, as the street called Minories commemorates the minoresses or nuns of S. Clare, whose house was founded in 1293 by Edmund Earl of Lancaster.

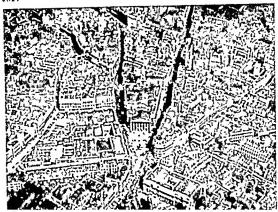


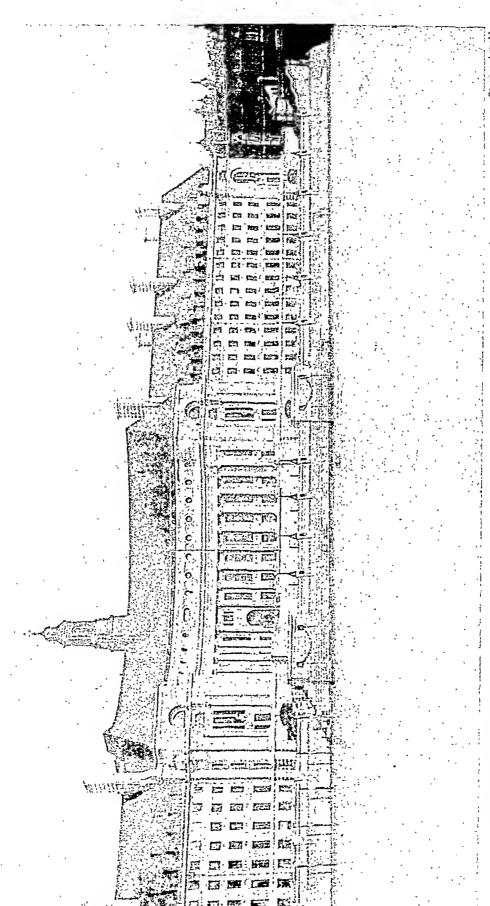
CITY OF LONDON AS IT WAS BEFORE THE GREAT FIRE

CHURCHES. 1, Allhallows Barking; 2, S. Olave; 3, S., Katherine Coleman, 4, Tlinity Christ Church; 5, S. Katherine Christ Church, 6, S. Andrew Undershaft; 7, S. Mary 8, S. Ethelburga, 9, S. Helen, 10, Allhallows Staining; 11, S. Gabriel or Fen Church; 12, S. Margaret Pattens, 13, S. Dunstan In the East; 14, S. Margaret Pattens, 15, S. Botolph, 16, S. Magnus; 17, S. George, 18, S. Margaret; 19, S. Leonard Milk Church; 20, S. Henet Grass Church, 21, S. Dyonis; 22, Allhallows, 23, S. Edmond; 24, S. Michael Archangel, 25, S. Peter Cornhill; 26, S. Martin Olewich; 27, S. Anthony (French Church); 30, S. Bartholomew; 29, Anstin Friars (Dhitch Church); 30, S. Bartholomew; 31, S. Benet Fink; 32, S. Nicholas Acon; 35, S. Clement In Eastcheap, 34, S. Michael; 35, S. Martin Orgar, 36, S. Laurence Poullary, 37, S. Mary Abchurch; 38, S. Mary Woolnoth; 39, S. Christopher; 40, S. Martin Grart Lothbury; 41, S. Mildred; 42, S. Mary Woolchurch; 43, S. Stephen Walbrook; 44, S. Swithin; 45, S. Mary Bothaw; 46, Allhallows the more; 47, Allhallows the less, 48, S. Michael Paternoster; 49, S. Martin Vintry; 50, S. John upon Walbrook; 51, S. Thomas Apostle; 52, S. Sythe; 53, S. Pancrate; 54, S. Mary Colechurch; 55, S. Martin Pomary; 56, S. Olare Upwell; 57, S. Stephen; 58, S. Alphaeg, 59, S. Mary Magdalen; 64, All-62, Mar

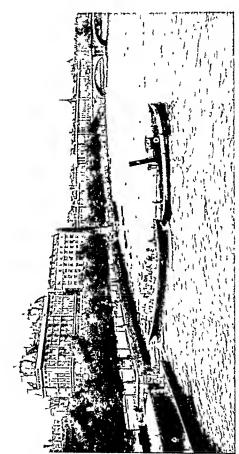
hnllows Honey Lano, 65, S. Mary Bow, 66, S. Mary Aldermany, 67, S. James Garhekhithe; 68, Holy Trinity; 69, S. Michael Queenhithe; 70, S. Midred; 71, Albhallows Bread Street; 72, S. John Lvancellst; 73 S. Matthew; 74, S. Peter W. Cheap; 75, S. Michael, 76 S. John Zachary; 77, S. Olave Silver Street; 78, S. Marthey; 77, S. Olave Silver Street; 78, S. Mary Staining; 79, S. Aban; 80, S. Anne; 81, Foster (S. Vedast), 82, S. Leonard; 83, S. Augustini; 84, S. Nicholas Colar John, 85, S. Nicholas Cola Abbry; 88, S. Mary Mounthaunt; 87, S. Mary Somerset, 88, S. Peter, 89, S. Mary Magdalen; 90, Christchurch, 88, S. Peter, 89, S. Mary Magdalen; 90, Christchurch, 91, S. Gregory; 92, S. Anne; 93, S. Andrew, 94, S. Bene't Hithe; 95, Temple; 96, S. Dunstan; 97, S. Bride, 98, S. Andrew; 99, S. Sepulchre; 100, S. Botolph; 105, S. Glies; 104, S. Botolph; 105, S. Mary Overy, HALLS: 1, Rakers'; 2, Clothworkers'; 3, Irenmongers'; 4, Tirleklayers'; 5, Fletchers'; 6, Parish Clerks', 7, Drapers'; 8, Fishmongers'; 9, Dyers'; 10, Carpenters'; 11, Armourers'; 12, Girdlers'; 12, Glies; 13, Founders'; 15, Masons'; 16, Bakewell; 17, Bay, 18, Founders'; 25, Innhelders'; 24, Parish Clerks'; 25, Fainter Stainers'; 29, Blacksmiths', 28, Haberdashers'; 29, Blacksmiths'.

2521 IONDON





and with its main entrance in Belvedere Road, rises the London County Hall, the new headquarters of the by Ralph Knott with a river façade 700 feet in length; it was opened in 1922, but the north wing was not At the east end of Westminster Bridge, on the left. London County Council. The building was designed HUGE RENAISSANCE



At 11, b 11's the water tracted the end of those streets which run so ath from It ng the member SEEN FROM HUNGERFORD Util 1864 the area now excepted by the Alctoral Imbandance use and and A. I.I.b. if the state reades the cool of these places the Standard at the end of one, Buckingham where there util statistic between Marra, at a strikence. If red is now really a mile and a belia where Strand and at the end of one, Buckingham where there util statistic between an important ending the structure of the structu VICTORIA EMBANKMENT, FROM ADELPHI TERRACE



Tepeti

MONUMENT OF AN EMPIRE'S SORROW AMID AN EMPIRE'S ADMINISTRATURE

In the centre of Parliament Street, opposite the Colonial Office, stands the Cenotaph, inscribed with fine simplicity "The Glorious Dead." Designed by Sir Edward Lutyens, it commemorates those who fell in the Great War, stands on three broad flags and is surmounted by an altar. Parliament Street is a continuation of Whitehall; both contain the chief government offices



In the Public Record Office Letwern Letter fance and Chancery Lane I nation is state papers and archives some dating the kest at them are preserved in frequent resuns



It is hi centil centure gatchouse restored in 17° > gives access to the Guildhall home of the City Corporati 1 whose claic banquets Le I their have been far o is for centuries



Dean's Yard was once a portion of the Abbey gardens and known as Tie Flms Through it ran a stream to turn tie Abbey mill, now school toys 113 football here

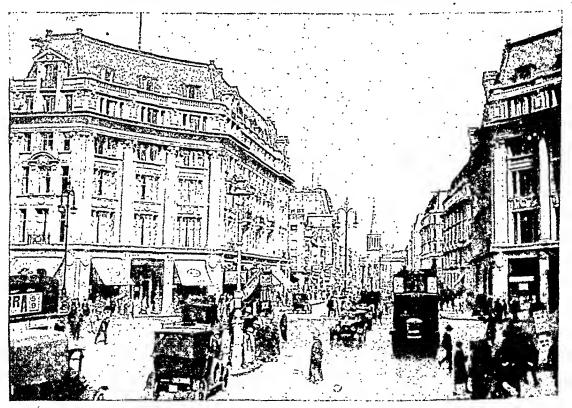


Of London a four great fans of Court, Lin coins Inn the third Iving east of Lincoln a Inn Hekls with main entrance in Chancery Lane is associated with many eminent men

QUIET CORNERS HIDDEN IN THE TUMULTUOUS HEART OF LONDON



TIMBERED HOUSES DATING FROM ELIZABETHAN DAYS IN HIGH HOLBORN Opposite Gray's Inn Road is Staple Inn, with a fine gabled and timbered façade, restored in 1886. High Holborn escaped the ravages of the Great Fire and still contains a few old buildings. The statue in the middle of the road commensorates those of the Royal Fusiliers, the City of London Regiment, who died in the Great War. In the distance is Holborn Circus



OXFORD CIRCUS, THE GREAT SHOPPING CENTRE, AND UPPER REGENT STREET Oxford Circus is formed by the junction of Oxford and Regent streets. One of the fine shops around the Circus is the Louvre, a branch of the famous Parisian house. On the left in Upper Regent Street is the Polytechnic, which has about 15,000 members and students. The tower and needle-like spire of All Soul's Church rise where Upper Regent Street is continued by Langham Place



PICOADILLY CIRCUS HEART OF THE WEST END AND ITS TRAFFIC ARTERIES
Drea ils Circ si sa the j o since of Shattestury Aven e, learn Street Persuilly Haymarket
and Co entry Sirrer w. I histories the control through the control that a service of the rish
o t the day and at right glares with exported when the first control the control boundain will be
testing about left and base are pay with the for he of court about 14 stakes of the 7 me selfers



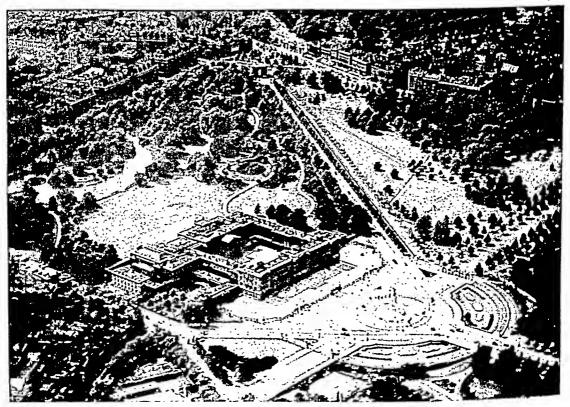
CLUBS AND RESIDENCES OF PICCADILLY FACING THE GREEN PARK
P ccallily has a history that goes buck to the early seventeentl cent ry when several of the large
mandlins will i front the Green 1 size were till. The is not street most for abot an inferom
1 ccased by Circus to Hy is 1 ark Corner and contains in the castern half fine ships, the Berkeley
Rits and I cently brother and several restaure its and its amounts for this many cited is a light peark



Humphrey Joel

KNIGHTSBRIDGE, THE NORTHERN BOUNDARY OF BELGRAVIA

Knightsbridge, as a continuation of Piccadilly, runs from Hyde Park Corner to Prince's Gate, where it is renamed Kensington Road. On the north side it is bounded for the greater part of its length by Hyde Park and on the south by tall houses, hotels and shops. The lofty building in the photograph is that of the Hyde Park Hotel which is almost opposite Sloane Street



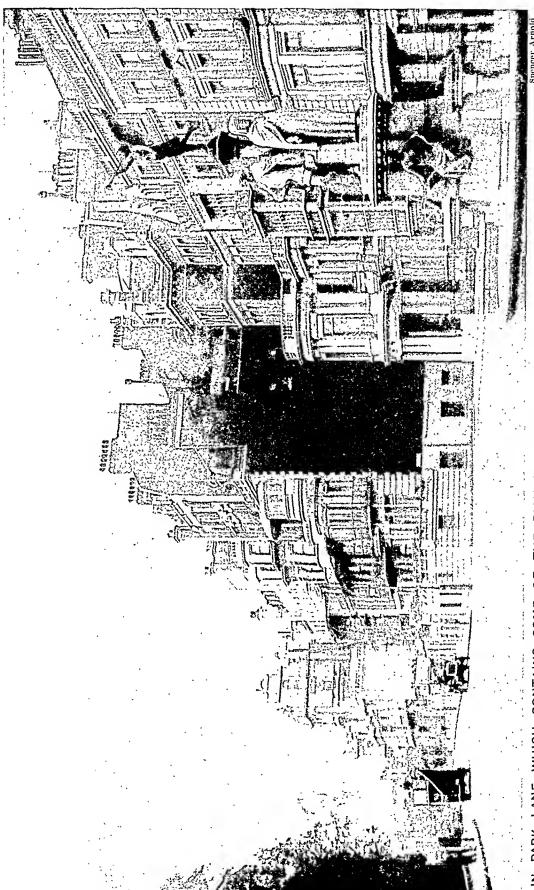
QUEEN VICTORIA MEMORIAL IN FRONT OF BUCKINGHAM PALACE
Since the accession of Queen Victoria, Buckingham Palace has been the London residence of the
sovereign. Behind the palace is a garden 40 acres in area, containing a lake and a pavilion; on
the north side is Constitution Hill passing under a triumphal arch to Hyde Park Corner; on the south is
Buckingham Palace Road, which passes the Queen Victoria Memorial and joins the Mali



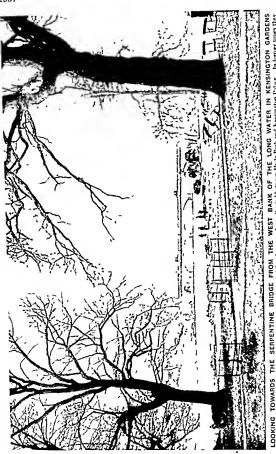
DERKELEY SQUARE THAT HAS HOUSED MANY FAMOUS MEN
Once of the most of the Lands arise version of leading a parter library of pare was intigut in the
early eighteen internative or a portion of the scanders of library eight in the Nobertin loom perhaps,
are three more beautiful plans treet to be to intitud in the single central graden around which
take in many of the fine of 11 looks on very it is in a remote of eminet in en-



TALL HOUSES OF GROSVENOR STREET TRAVERSING QUIET MAYFAIR Growere Street runs from Groweren Gate in Lark Lane through Groweren Square to New Bond Street. This the most fashional high part of London is realled though unofficially Mixtaid's since it was the site of the Policy of the May during the seventeenth century. This festivity was eventually suppressed owing to its roundiness. The Late round was Brook Tried by the T) bourne stream



windows. The houses, which provide some of the largest rent rolls in the whole city, are or all sizes from Dorumser, it is a traffic artery from Marble Arch to Hyde Park fromted buildings huddled together with every sort of ornamentation for the sake of difference. Park Lane is a traffic artery from Marble Arch to Hyde Park Corner, joining Oxford Street and Edgware Road to Piccadilly and Knightsbridge. It is also the western border of that district called Mayfair For the most of a mile Park Laue marehes with the eastern palings of Hyde Park and the inhabitants have one of the finest views in London from their upper



were enjurged and considerally beautified by Queen Can line who had the Serventine and the Round Since then many lan leage gardeners have added improvements and the gardens now cover The portion of the lake within Kenyington Ganfrens Is called the Lang Water, in Hyde Park beaund it elinige it is known as the Superulan Kensington Gardens are a favourite resort and pleasure ground of Londoners and are situated between Hydo Park and kenyington Palace avenues of trees, including the Broad Walk, planted were purt of the private grounds of Armsington Palace an I Pond made and

of his two nephews in the Tower. It is not easy to imagine noblemen's houses in Botolph Lane, Fenchurch Street, Lombard Street and Throgmorton Street, but there were many of them. Aldersgate Street was a row of palaces. On the site of the Vintners' Hall was a splendid house, where Sir Henry Picard, Lord Mayor, entertained five kings in 1357. They played dice, and the King of Cyprus lost both his money and his temper.

The Passing of the Town Mansion

The bishops have been glad enough to part with their sumptuous town residences. The names of Ely, Winchester and Durham Houses still indicate where those prelates occupied palaces outside their dioceses. The bishops of London lived on the north side of S. Paul's Churchyard, conveniently near their cathedral. Now even London House, in S. James' Square, has been given up, and only the "country" house, Fulham Palace, remains to the bishop.

One of the finest private mansions in London was Northumberland House, which was destroyed in the last century, and we must go to Syon House to see the lion of the Percys, with tail extended, over the ducal residence. Nor can we picture Somerset House as the Protector Somerset designed it, though immense size can be realized as the eye travels along the very beautiful façade of the present building. Piccadilly still contains a few great houses, some of them turned into clubs; the most imposing is Devonshire House, which has gone the usual way of these "white elephants."

Islands of Calm in the City

Surrounding Hyde Park and S. James' Park there is a group of handsome modern residences, such as Grosvenor House, Lancaster House, now the London Museum, Lansdowne House, with Bridgewater House opposite, Apsley House and Dorchester Huose. Changes in the way of living, only partly due to

rising prices and the difficulty of getting servants, have made this kind of magnificence an anachronism. From the spectacular point of view, but perhaps from no other, the change is to be regretted. But the steady drain of precious works of art to America is rather deplorable.

There are, besides churches and large houses, two classes of building very characteristic of London, which a visitor from overseas ought not to overlook. The great "Inns" of the lawyers, looking curiously like large and dingy colleges of a university, preserve a conventual peace and quiet in the midst of the hubbub of London. sudden change of atmosphere is even more marked when we enter the cloisters of Westminster Abbey, veritable bit of the Middle Ages, quite untouched and unspoilt. The other characteristic feature, peculiar to the City proper, is the halls of the wealthy City Companies.

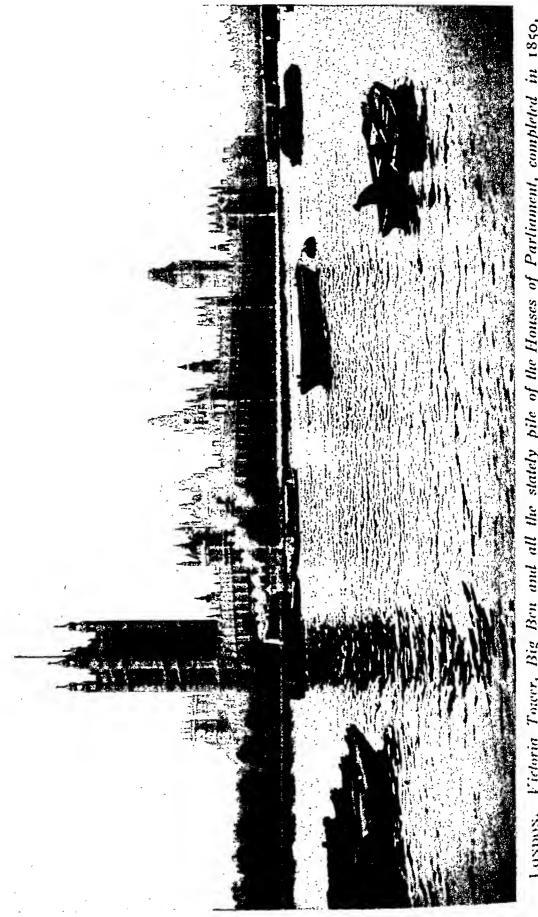
Halls of the Livery Companies

These old halls, some of which must no doubt have been extremely beautiful, were lost to posterity in the ruinous conflagration which devastated old London in 1666; but the present homes of the Livery Companies, though less romantic, are often very splendid, and well worth a visit. The dining-hall, decorated with past worthies of the institution, is a very English feature, common to the Oxford and Cambridge colleges, the Inns of Court and the Livery Companies. The Companies still keep up the reputation once enjoyed by the priestly colleges of ancient Rome, of being models in the art of luxurious hospitality. They are also models in their generosity to public education.

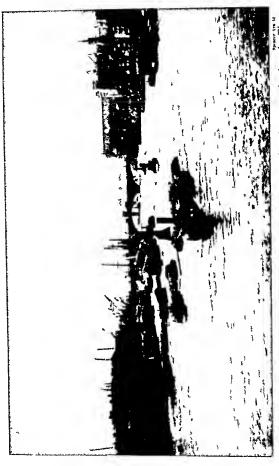
John Colet, the famous dean of S. Paul's, showed his wisdom by putting his school, which he placed at the doors of the cathedral, under the care of the Mercers' Company instead of under that of the dean and canons, who might have turned it into a school for choristers. In its present site, at Hammersmith,



LONDON. Bankside, between Blackfriars and Southwark Bridge, faces the old City wharves and the towers and done of S. Paul's 2533



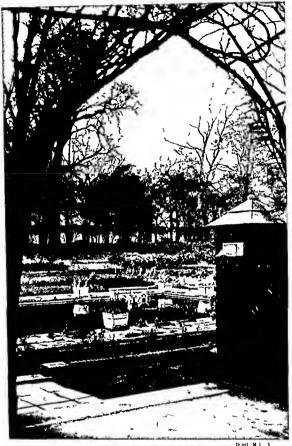
LOSDON. Victoria Tower, Big Ben and all the stately pile of the Houses of Parliament, completed in 1850, dominate the Thames from the north bank. On the left can be seen the west end of Westminster Abbey



Loxnox At the limit of max, atom for large essets, the Pool has 14 feet of cater in the channel. There is a chimpering of sirens and a cleaze of derricks, and tigs doing conders with ful barges on the lip of the flood.

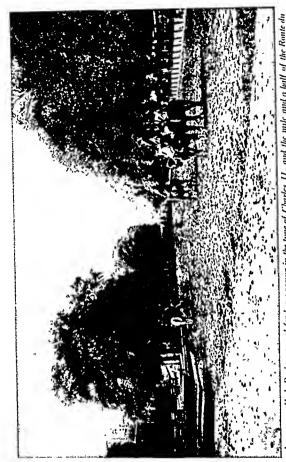


LONDON. Spring haze dims Kensington Palace and S. Mary Abbott's across the Round Pond. Far away is a rumble of traffic 2536

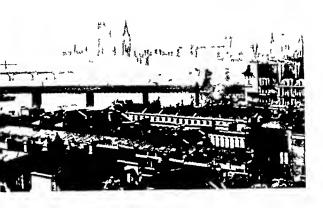


LONDON Kensington Gardens ones this Dutch garden by the Palace to William III, whise asthma lept him from the City fog 2537

LONDON. Over the corner of the lake in S. James' Park the Foreign Office appears on the right and, beyond, the buildings in Whitehall. All sorts of water-birds from ducks to pelicans repair to this grass bank to preen their feathers



LONDON. Hydr Park was used for hars-raving in the time of Charles 11., and the mile and a half of the Route du Roi, corrupted into Rotten Row, is still the fusest rading track in the metropolis, though riders may rave no more

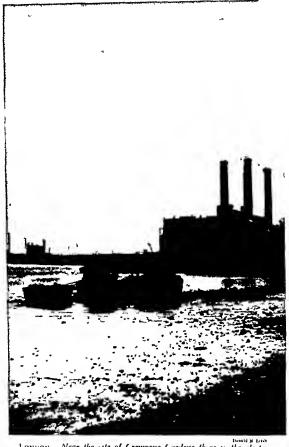




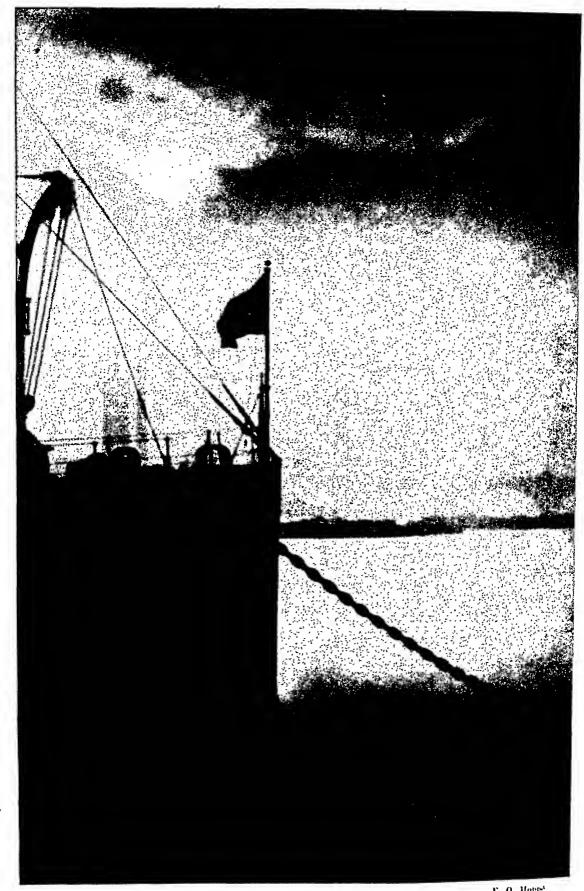
Above, the river is seen from Waterloo Bridge to Battersoa as it winds by Westminster to more smoke-verted hills in the south-west 2541



London. Cheyne Walk, Chelsea, has 18th-century houses with bright painted doors and looks over railed shrubberies at the river 2542



LONDON Near the site of Cremorne Gardens there is the electric power station at Lots Road where the Chelsea Limban ment ends



LONDON. Lighting the fog, the veiled sun shows an island of barge's by Waterloo Bridge and the old Shot Tower etherialised in the murk
2544



LONDON. Lamps light and leaves drift down on the streel-artist's neglected work when autumn twilight comes to the Embankment 2545

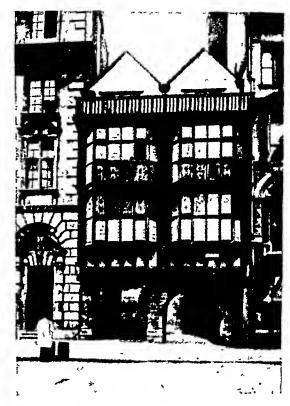


London. Strength and grace are blended in the architecture of the Port of London Authority's splendid offices on Tower Hill 2546

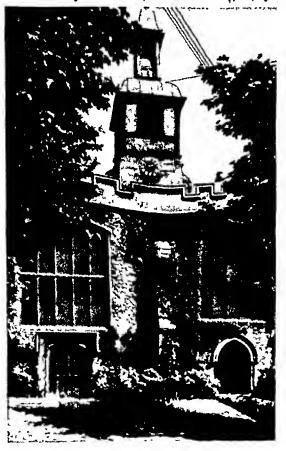


LONDON. Kew Gardens are by the river on the western outskirts opposite Isleworth. The pseudo-Chinise Pagoda was built in 1761 2547



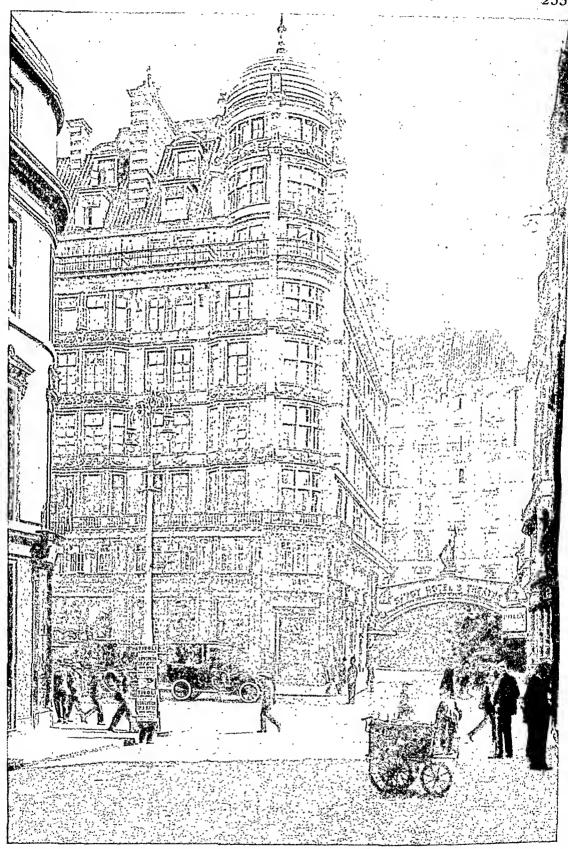


Old timbered entrances lead to S. Bartholomew the Great in Smithfield and, on the right, from Fleet Street to Temple Church



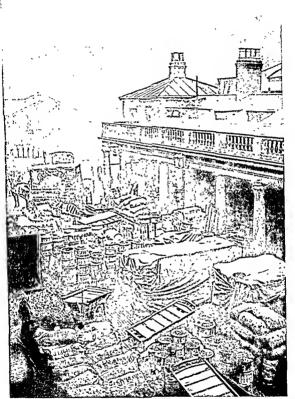


LONDON. S. Helen's, Bishopsgate, is a fine old city church; while Market Street, Mayfair, is hid in the very heart of the West End

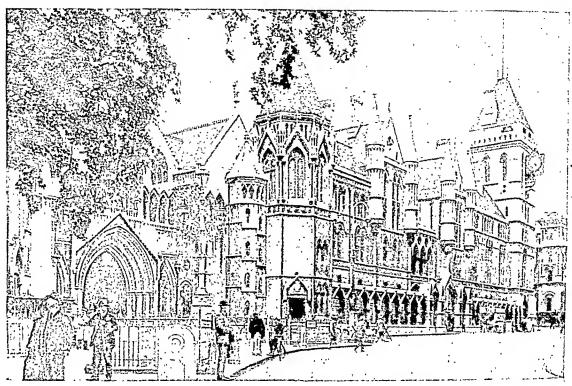


SAVOY HOTEL AND THEATRE ACROSS THE STRAND FROM NORFOLK STREET

On the south side of the Strand, between Savoy Court and Fountain Court, are the handsome Savoy Buildings, masking the Savoy Hotel. Savoy Court leads to the hotel and theatre. The hotel was built partly on the site of the Savoy Palace and that of Worcester House, being extended in 1903-4. The theatre was opened in 1881, being the first in London to be lit by electricity

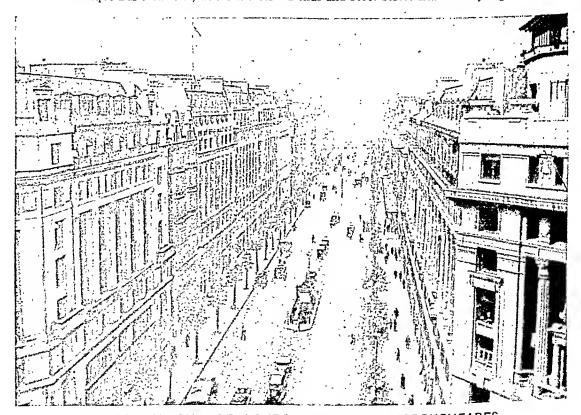


CROWDED CORNER OF LONDON'S GREAT FRUIT AND VEGETABLE MARKET London's chief market for vegetables, frust and flowers is at Covent Garden, just north of the Strand, and since the first market sheds were built in the seventeenth century the wholesale business has not ceased to grow. Several thousand hands are employed and market days on Tuesdays, Thursdays and Saturdays, when the costess and flower give cellect their days supplies, are well worth seeing



GOTHIC PILE OF THE ROYAL COURTS OF JUSTICE IN THE STRAND

Designed by G. E. Street and opened in 1882, the Law Courts, including the four added in 1913, contain
23 courts and 1,100 rooms. The arcaded Strand front of Portland stone, pierced with Gothic windows
and distinguished by gables and pinnacles, is 500 feet in length. Opposite the south-east angle is the
Temple Bar Memorial, where the Strand ends and Fleet Street and the City begin

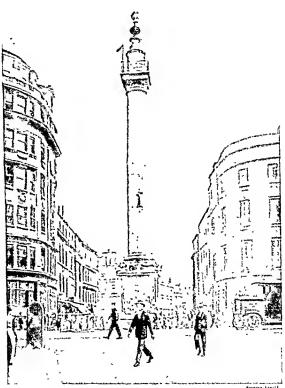


KINGSWAY, ONE OF LONDON'S FINEST THOROUGHFARES

Most of the slums of Seven Dials were swept away when Kingsway was laid out to provide a main road from the apex of the Aldwych to High Holborn. An underground trainway runs beneath the street with the entrances to the stations in the middle of the street. Near the Aldwych end, on the east side, is the Stoll Picture House which was originally built as the London Opera House



S PAUL'S FROM FLEET STREET IN THE QUIET OF SUNDAY
S Paul's was designed by Sir Christopher Wern and the foundation stone land in 1675, the entire
structure being completed in 17to. The cathedral is in the Renaissance stile and dominated by
the lamous dome which is sumounted by a cupida and innerm with a golden bull and cross. The
tridge curriers a branch of the Southern Railway between I follown Viaduct and S Paul's stations



COMMEMORATING THE GREAT FIRE: MONUMENT FROM FISH STREET HILL I rected after the design of Sir Christopher Wern in 1671 27, the Shoutment, a Diffy 202 foot. Dute doctume surmounted by a fill time 44 feet high, is a memoral of the Great I received by the out about 200 feet away in Dull hing I are. A studing stairway gives access to a platform her the top of the monument, whence a fine view of the Cuty is obtained, at may be seen in the following pages.



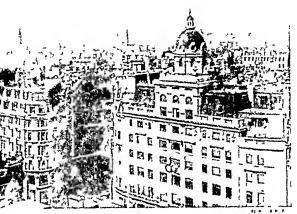
FROM THE HEART OF THE CITY TO THE HEIGHTS OF HAMPSTEAD—It is necessary to climb to some considerable height before it is at all possible to understand the enormous extent of the world's greatest city. The Monument, near the north end of London Bridge, is an excellent vantage point, and it was from its summit that the camera recorded this photograph. Of all people, Londoners themselves are least apt to realize the size of their county of houses.

of fourteen million square miles has to pay. Town-planning is a new science, and the haphazard way in which the metropolis expanded is characteristic of the nation which built the greatest of empires, it has been said, "in a fit of absence of mind."

There are whole square miles of London which are unnecessarily ugly and depressing; the visitor may wonder that they do not harbour a population of revolutionaries. This again is typical of the age in which these mean quarters grew—an age bent on increasing to the utmost the aggregate wealth and prosperity of the country, and too forgetful of the obvious fact that the new

population was deprived of most of the amenities of life. Many practical improvements have been made, especially in the departments of lighting, sanitation and transport.

Among the newer bridges, Waterloo Bridge is one of the finest in Europe, Charing Cross or Hungerford Bridge perhaps the ugliest; the Tower Bridge, though impressive, does not win the admiration of the purist in architecture. We can hardly imagine the Thames without its Embankment, and the underground railways, together with their extensions out into the country, are almost a necessity of existence for the Londoner.



-CLIMD THE MONUMENT AND ALL LONDON LIES AT YOUR FEET THE ACT real conditions the first love at law find limit on the first love at law find the first endered blooms are not extended the conditions are locally first citation. The little experience that bold will ambit either the locally it will be first the course fixen a bitterial between the little data and the fixed of the course fixen a bitterial between the little data and the fixed of the course fixen a bitterial between the little data and the fixed of the fixed o

On result of the true port facilities has been to lave the City almost a willerness at mulits 11/2 ubmbs spread lattler and lattler affeld and Greater London is as large as a small Mony thousan lythus hyc and l ill a intersurreun lines but the amount of time spent in the double daily journey is a serious lors except to the t rot to tors of the newspapers which are now the chief intellectual provender of the large majority. And no solution has yet been found for the congestion of triffic in the main streets especially where two arteries cross each other No continental city suffers to the saun. extent from this trouble

n verth less greatly impresses the foreigner as he observes the general and impurstoned authority exercised by the buth. London policeman and the orderliness and good humour which distinguish a London crowd

But parlings another characteristic of the Londoner will interest the forcign visitor even more—the growing love of musements taken in common. The Burn Holding crowd and the Derby crowd are no modern innovations, and the two great cricket grounds I ord sand the Oad have fong been national institutions. But football and the cm may are new. Till within hing memory football was played chiefly at

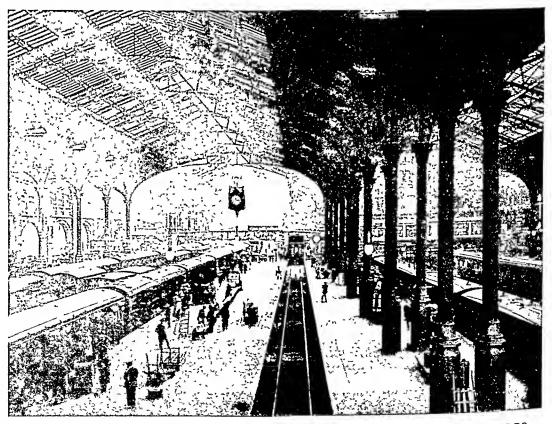
the public schools; and as each great school had its own game, with rules different from any other, there could not be much competition. The universities standardised the two types of game, Rugby and Association, and the latter has now become, together with horse-racing, the greatest interest for the leisure hours of the democracy.

The crowds increase every year, till nothing short of a vast amphitheatre can contain them. It is no doubt a pity that the populace only watches games, and bets upon them, instead of playing them; but the causes are easily intelligible. The prominence given to betting in the newspapers strikes the eye on every hoarding; this, and no longer drunkenness, is now the chief national vice. The habit of going to theatres, and to pictures, has also increased enormously, and the stranger will note that thousands of Londoners can spare the time to wait for more

than an hour in long queues outside the theatre doors.

He will also note the vast extension of holiday travelling, both by train and charabanc. For better or worse, the poorer Londoner now requires an abundance of excitement, recreation and enjoyment, and is able to indulge in them. The ideals of hard work and thrift, the gospel according to Samuel Smiles, no longer appeal to Englishmen; it is obvious to the most casual observer that the younger generation is "out for a good time."

These characteristics of London life, which touch on moral and economic questions, are mentioned here only as part of the spectacle which the great city presents to every intelligent visitor. On Sunday he will find the churches moderately well attended, except in the poorest quarters; but he will probably come to the conclusion that organized religion has lost some influence in the



LIVERPOOL STREET STATION SERVING THE NORTH-EASTERN SUBURBS A network of railways, on the surface and under ground, intersects London which has over 630 railway stations, and all the large trunk lines which serve the country have termini in the Metropolis. Liverpool Street Station in Liverpool Street is a terminus of the London and North-Eastern Railway and the station for the Eastern Counties and the Continental route via Harwich



CONDENS DARKER SIDE A GLIMPSE OF THE EAST END a strictly like was firstly in managery and a tricing control of the foreign party. The minage configurated the search of the foreign party is the minage configurated the at 1 in the 10th of 1

last generation and that the young are prone to "see and hear some rew thing," in this as in other matters. New cults and even old superstitions captivate the minds of many.

In intellectual matters there is a profusion of talent and great activity, but an apparent absence of outstanding genus. The long line of London born poets, a list which includes Chrucer, Spinger, Milton, Herrich, Cowky, Shiriky, Ben Jonson, Pope, Gray, Keits and Browning, has not been lately enriched by new names equal in literary ment to most of these,

But the capital of Ingland males a strong appeal in poets, as well as to sturdy provide minds life Saumel Johnson. It was Wordsworth the prophet of rural hearty and rural solitude, who said, in one of his finest somets, that "earth hath not anything to show more fur" than Westminster Bridge by might



From the railway station at Luxemburg the Avenue de la Gare loads north to the fine viaduct, built in 1861, which spans the deep valley of the Pétrusse. In a rocky bollow to the right of the viaduct is the church of S. Quirinus, a fourteenth century structure, hewn out of the solid rock. On the right of the photograph can be seen the ruins of an old tower and some of the casemates cut out of the face of the cliff, reminiscent of Gibraltar. A new suburb of Basse-Pétrusse has sprung up on the ruins of an old two south side of the Pétrusse ravine beside the railway station, which is the junction of several international routes THE OLD FORTIFICATIONS GREAT VIADUCT ACROSS THE PETRUSSE VALLEY AND SOME

LUXEMBURG

Tiny Duchy 'twixt Three Great States by Demetrius C. Boulger

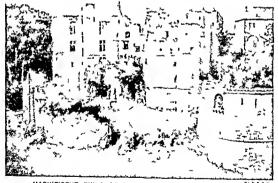


numbers the Italian colonistil holds the first place among numeratis. The capital Inventions is the only place descring the name of acity. It occupies an imposing position above the lattle stream called the Mactic and model days was famous principally for its fortices, which was dismanticed by the terms of the I ond at Convention in 1867.

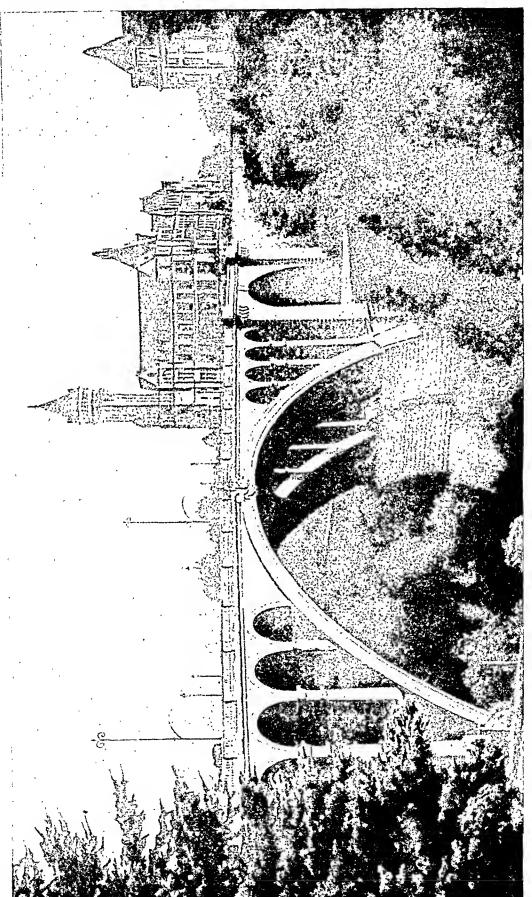
A cen us in 1721 placed the population as high as 45 900. It is not lear how much of this total represented a fixed population and how much a can uliffur. The city contains some fine building notably the Ducal Palace the Palaced, In the the Hotel de Ville and the eatherland of Note. Dame The suburits of Clausen and Plaffental are busy industrial eathers in contrast with the out to the old offeral town.

The towns of Dickirch (population 3776) I chternach (4300) and Vinden (2000) in interacting in another sense Dickirch is the cluck resort for those who fish in the Sure I chternach also in that their is visual for the interesting.

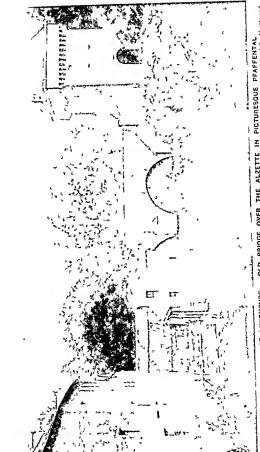
rums in its neighbourhood, and il o lor the procession of ilaneers a curious medical fe tival that is cold rated at Whitsontide while Visuden apart from its picture same situation, nos esses a fine castle which Ixlonged to William the Silent In old days I uxemburg was famous for its castles and allbers. The latter suffered during the I rench Revobutton, and several base been discribed to secular purposes. Int Churlontaine tnow in Belemin) remains as dedicated Among castly Clervany Schieburg and Hourschied are fine examples of the house-fortresses of the Middle Ages In the year rate the constitution was reframed on the principle of self deter mination. A very considerable minority voted for an economic union with France A much smaller min rity were in favour of a similar union with Belgium But the situation was chared when trance declined to as at herself of the opening afferded bur and passed on any right she might claim and r the national vote to B lanun. This resulted



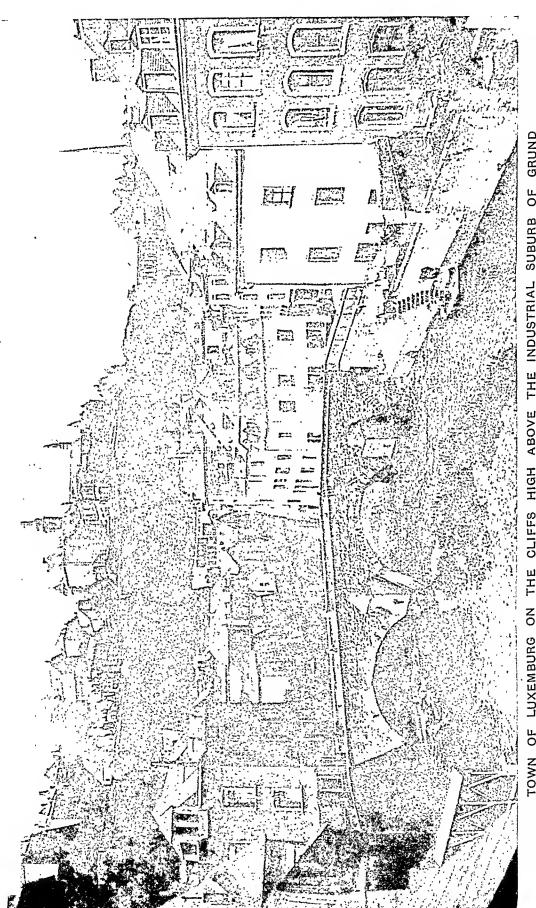
MAGNIFICENT RUINS OF THE OLD CASTLE AT BEAUFORT TO THE NOT THE PROPERTY OF THE NOT THE



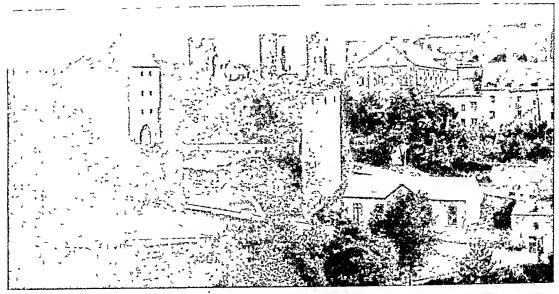
Near the south end of the public park, which has been laid out with woodlands on the site of Luxemburg's old walls, the Port Adolphe, a handsome bridge erected in 1903, flings a single mighty areh over the gorge of the Pétrusse, and connects the Boulevard Royal with the Avenue de la Liberté. The latter of these spacious and well-kept thoroughfares passes into the Place de Paris and thence, known as the Avenue Adolphe, leads on to the railway station (Gare Centrale). Just south of the bridge, on either side of the Liberty Avenue, rise the imposing buildings of the Administration Publique THE PETRUSSE P BRIDGE OF OLD LUXEMBURG ACROSS THE PRECIPITOUS RAVINE GRACEFUL



The old portion of Luscriburg city still strends in a unique post in non-stability and an all the stability of the strends in a strend of the stability of the strends of the stability of the strends of the stability of the strends OVER BRIDGE



Luxemburg, the capital of the grand duchy, was at one time considered to be the strongest fortress in Europe after Gibraltar, but it was dismantled in 1867. The Alzette, on which the suburb of Grund with its factories and iron and steel works stands, has carved out a sinuous course for itself beneath the black crag in whose face are rows of dark holes from which projected the iron mouths of cannons in former days. The older portion of the town, with the palace and public buildings, occupies a central plateau, up which the streets zigzag or ascend by steps



FIFTEENTH CENTURY BATTLEMENTS OF LUXEMBURG CITY I unemburg was a walled city for many centuries, but now the fine old ramparts serve as pleasant boulevards. A few remnants of the once splendid defensive works are, however, still standing and on the Plateau du Rham, in the gorge of the Alzette, east of the city, are several ancient pieces of masonry, including the erumbling towers seen above, dating back to the fifteenth century

eventually in an economic union between Belgium and Luxemburg which was to endure for fifty years from May, 1922.

The new constitution excluded all foreign pretensions to any control over the government of the country, and the nation was declared to be sole and exclusive sovereign. While the throne was to be retained by the existing dynasty, the grand duchess was to rule through a responsible minister, representing the legislative chamber.

For its size the state is well served by railways—the mileage exceeded 330 miles in 1921; of course, much of this total is represented by light railways or rather steam tramways. The most important main lines are those from Arlon to Luxemburg, bifurcating there into two branches, one to Treves and the other to Metz and Strasbourg. The old Prince Henry line connects with the Belgian eastern railways near Gouvy. It is believed that the economic union with Belgium will lead to a considerable improvement in the railway system of the duchy, and more especially in regard to the introduction of light railways to supersede the somewhat antiquated steam tramways.

Luxemburg is to be classed as a neutral state, but the signatories of the act of neutrality are not bound singly to go to her defence. As Luxemburg is without any means of offering resistance to an invader, she is doubly defenceless. Perhaps the upshot of this will be that at last, realizing her position, she will voluntarily attach herself to one or other of her friendly neighbours.

LUXEMBURG: GEOGRAPHICAL SUMMARY

Natural Division. Politically the existing grand duchy is a unit, geographically it is a fragment of the Ardennes-Eifel section of the block mountains of Central Europe, relics of the ancient pre-Alpine mountains. (Cf. Belginm.)

Products. Agricultural. Barley and the hardier cereals. (Cf. Luxembourg

province in Belgium.)

Mineral. Iron ore and steel. (Cf. the minette iron ores of Lorraine, v. Alsace-Lorraine.)

Communications. Apart from steam tramways and light railways, the railways are connecting links across this neutral territory between the more important neighbouring states.

Outlook. Smaller than many English counties, without any geographical reason for its continued separate existence, the state will probably serve the future of its people best by uniting with France or Belgium and ceasing to function as a separate political unit.

MADAGASCAR

Mysterious Island Torn From Africa

by Robert Machray

Wort! Traveller and Winter on Lore gn Affairs

Or of the largest islands in the world Vidagascar is in several ways, the most interesting of them all. It presents a problem or rather it is a mysters, which incloded at any rite so far lars been able to solve completely. Part of the answer is known the rest is schoce—a silence that perhaps will never be I roken.

Midipascar came into existence as an islandage safter it had been in existence as part of the manhand of a continent Geologists and hologists have no doubt of the truth of this statement because the exidence is decisive. But they cannot tell when the tremendous convulsion of nature took place which tore Madagascar from the side of Africa and thrust between them a sea channel to ooo feet deep and more than twenty times as broad as that which separates Dover from Calus. It is a profound mystery

Nor is the date of the insulation of Madagascar the only mystery. For much this exentists say about the island is guessiork—very good guess work—but no more than that. One of the reasons for the statement that Madagascar was once part of the African continuat is derived from the discovery of fossil remains of large animals such as belong to Africa as for instance the hippopotamus.

Puzzle of Animat Life

But strangely none of these creatures is to be found in the island alive nor is there even any memory of them indeed it is as certain as a matter can be which is incapable of absolute demonstration that they had ceased to exist in Madagascar before it became an island. The supposition is that that part of Africa had become colder and

colder with the consequent retreat of the big beasts into wariner regions before the brane volcame change occurred

Thre were some survivils in Midagescar from what may be termed its continental period such as the crocodile. But in general it is the ease that the island has developed a characteristic and distinctive wild life of its own.

Malaya Lar Prom Home

Another fascinating element mystery about Madagascar is population. As might be expected the island contains tribes of obviously African origin but it also has tribes such as the Hova whose origin is just as obstously Malay How came they there? Was Midagascar before that vast upherval in the far distant past in close touch with some eastern continent of which Malaya as we know it now is all that is left? Or are the Malayan peoples of Madagascar the descendants of men who had been swept by storm from their ancestral abodes to this land or perhaps had adventured daringly across the seas to find new homes? Sumply we do not know we can say is that whatever it was it happened long long ago for these peoples are in no sense newcomers

For a quarter of a century all the tribes of Madagascar have formed a political entity under the flag of I rance. The island is one of her most important and valuable possessions.

Mudagascar lies off the south-east coast of Africa from which it is separated by the Mozambique Channel whose nurowest part is about 240 miles. From north to south the island is not far short of x 000 miles in length and at its broadest from east to west, it is



THE WORLD'S THIRD ISLAND

some 360 miles wide. Its area is about that of France together with the combined areas of Holland and Belgium.

This is a fact that should be remembered, because though Madagascar looks small on the map by the side of Africa, it is really a very large island. population is upwards of 3,500,000, of whom some 25,000 are non-Malagasy, and the majority of these are French, mostly officials and traders. France holds the island with a small force of about 2,400 of her own troops, supplemented by some 6,000 native soldiers. The conquest of the country gave the French a great deal of trouble, but they have bettered their title to it by performing a real civilizing work.

Part of the difficulty the French experienced came not from the fighting qualities of the islanders, but from the

natural obstacles they had to overcome for success. In brief, the struggle was hard because of the configuration of Madagascar, much of it being mountainous and, in those days, almost without roads, except on the west where a fairly broad coastal plain gradually rises in terraces to the interior tableland. In that area the natives, known there as the Sakalava, had some well-beaten tracks and trails.

But the French attack proceeded from the east side-from Tamatave to Antananarivo, the capital; and there physical conditions are different. For from the interior tableland the ground sinks in steep, heavilyforested or naked rock escarpments to the straight eastern coast, and these the French troops had to climb. then a region without a road, but with plenty of hot, damp, thick woods and rough, slippery rock surfaces. It was then, as now, a very wet district, rain, often heavy, falling nearly every day, and as a consequence thick vegetation grew wherever the granite was covered with soil. Configuration and climate cooperated, it might be said, to make the advance of the French forces, with their artillery, as arduous a task as may well be imagined.

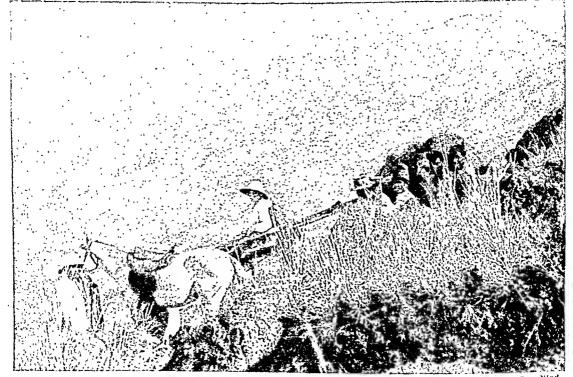
Madagascar's high interior tableland is composed of ranges of mountains that stretch like a backbone from the north almost to the south of the island, the elevation of these highlands being from 4,000 to 6,000 feet above sea-level. Almost in the centre is the Imerina plateau, where the mountains reach their greatest altitude. Everywhere can easily be discerned the signs of great volcanic activity in the past.

There are many extinct volcanoes, the principal being Mount Ankaratra, nearly 9,000 feet high. Smaller but still huge extinct volcanoes are Mount Amber in the north and Mount Ivohitsomba in the south-east. At present volcanic activity manifests itself solely in rumblings. The west and south parts of the island are comparatively lowlying, being about 600 feet above sea-

2572



BY MEANS OF A FILANZANA CROSSING A RIVER As yet few of the rivers in the island have been bridged, but fortunately fords are frequent and sufficiently shallow to permit the passage of a filanzana. This carrying chair consists of two poles fastened together by iron rods, and secured to other rods in the centre is a sort of chair made of heavy canvas with a foot-rest, attached to the poles, in front



HIGHLANDS OF THE INTERIOR MADAGASCAR Madagascar is mountainous, especially in the centre, the greater part of the island being covered by two plateaux, which are separated by a low ridge. There are a number of extinct volcanoes, Ankaratra, the highest, rising to 9,000 feet. Except for roads between the chief towns the only means of communication are native tracks often impracticable for earts and awkward even for the filanzana

MADAGASCAR



BEE-HIVE EUILDINGS IN A VILLAGE OF NORTH

Not far from the magnificent Dego Suares haven in the extreme north of Malagascar lies this orderly native value. However, the various facilities, the more primitive type comprising oblong and circular facts of wooden frames glustered with multiant surmounted by fail that their roofs, force, looks, prige and fact from the factors, and more values have forced and wares for earth.

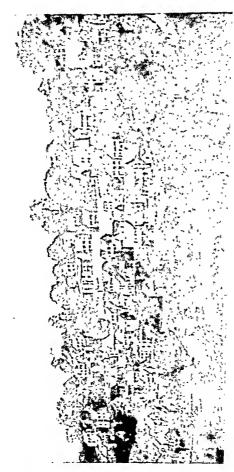


THATCHED HOUSES IN A WELL-KEPT STREET OF DIEGO SUAREZ

Diego Suare stands on the bay of the same name at the northern extensity of Madagacer. It has one of the finest harbours in it e world and is the headquarters of the Irench military colony, while there is an important ment preserving, industry. Many of the houses with high pitched roofs, thatched with grass or rush, are being replaced by buildings of bricks and tiles

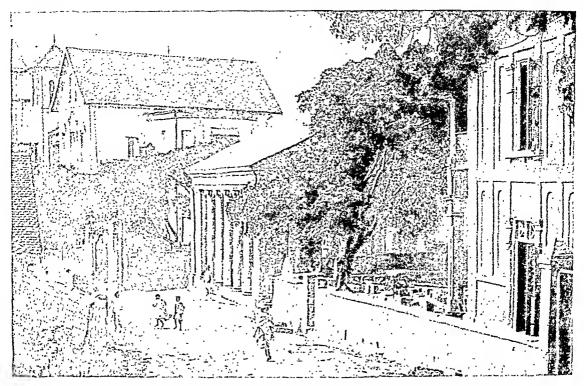


NEAR AURANODONDONA



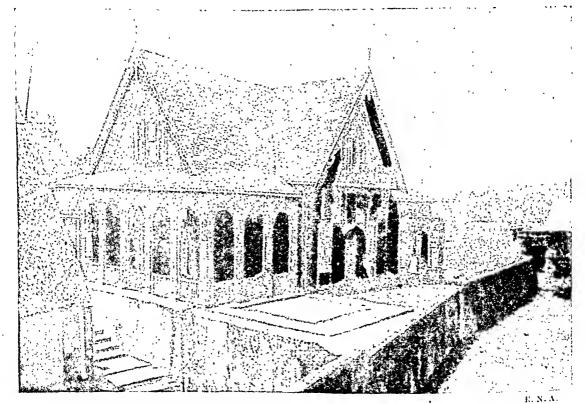


It has an excellent harbour with two entrances, and is connected Tamatave stands on a sandy projection almost at right angles from the eastern coast of the island,



CLASSIC COLUMNS OF THE PALACE OF JUSTICE, ANTANANARIVO

Antananarivo, the capital of Madagascar, stands on a hill in the central plateau of the island, and contains the administrative offices, royal palaces and the two cathedrals. Many parts of the city are too steep for roads and are connected by broad flights of steps. Since the introduction of stone and brick much of the town has been rebuilt, while the French have laid out several beautiful gardens



RESIDENCE IN EUROPEAN STYLE IN MADAGASCAR'S CAPITAL

The general appearance of Antananarivo conveys the impression of a picturesque and prosperous European town. Handsome stone and brick churches, palaces, schools and colleges are numbered among the chief buildings, several of which have even a pretentious style of architecture in contrast to the native buts in the villages. This neatly-planued house was a dwelling of Queen Ranavalona

MADAGASCAR



ROYAL PALACE OF THE LAST NATIVE QUEEN OF MADAGASCAR

Ranavalona III. di esta mathe covereign of Malagueer who alted la 1917 governed it el la la that the cleptoff prior and the third will faiter from 1833 until 1859 when the was deposed 19 bet french and deported to Algiera in 1809. Her palace crowning, astrepsized in Antiannarios is an in portant looking stone structure, of it ree storeys with a high jitched roof and 1 a square turret at each cerner This led to a war which began in 1883, but lasted to 1885, Tamatave being bombarded and taken in the course of the operations. By the peace wrung from the queen, the French obtained Diego Suarez and a certain control over her foreign policy.

France continued to be aggressive in and in 1890 France's actions protectorate of all Madagascar was recognized by Britain. The natives, however, refused to accept the French protectorate, and this led to another war, in which Antananarivo was captured by French troops; and the reigning queen, Ranavalona III., was deposed and banished to Algiers where she died in 1917, the last of her line. In 1896 Madagascar was declared a French colony, but it took three years longer and some more fighting for France to establish her authority over the island completely.

Though Madagascar is a French colony, it has no representative in the French Parliament, nor has it an elective assembly. At the head of the administration is a governor-general, who is assisted to some extent by a consultative It may be mentioned here council. that the governor-general also has charge of the Comoro Islands, which lie to the north-west of Madagascar and are valuable for vanilla and perfume plants, such as patchouli. In 1918 Madagascar was divided into twentyfour provinces, and the Comoro archipelago was included as the twenty-third of these provinces.

Everything is regulated by French officials, with the aid of natives in subordinate positions, the majority of

whom are Hova, for the Hova are by far the most intelligent of the Malagasy peoples. Education is compulsory and every child has to learn French. Not a few of the natives have been educated in France, others in England; some of them practise as doctors, dentists, lawyers or teachers in the capital and the other large towns.

France has not only given the island the advantages of ordered government and settled conditions of life, but she has made these practicable by the building of railways and roads. It is sometimes forgotten that civilization is in much a matter of routes and roads. And Madagascar was a roadless land before the French took over the administration—which is much the same as saying that it was a barbarous land.

Already the French have constructed about 800 miles of railway, and one of the most striking things in the capital is its great railway station. In addition, they have built excellent, well-metalled roads running from the capital to all parts of the island; and on the roads there are regular motor services. These railways and roads are developing the island's commerce very rapidly, and greatly augmenting its prosperity. The French, too, have put up many fine buildings in the capital and elsewhere. They have turned Tamatave into a wonderful port, full of a kaleidoscope of life, with its mixture of Europeans, and Arabs, Indians Malagasy, apparently busy and happy. just before the beginning of this century nothing was to be seen there except a few mud huts round a swamp.

MADAGASCAR: GEOGRAPHICAL SUMMARY

Natural Division. Fragment of the ancient continent of Gondwanaland. (Cf. Man Southern Africa and the Deccan.) A central tableland, with a scarp facing the cast. (Cf. the Western Ghats and the Drakensburg Mts.) An archaean core is overlaid with horizontal sedimentary rocks, lava deposits and volcanic cones. (Cf. the Deccan.)

Climate and Vegetation. Rain from the south-east trade winds, especially on the east side. (Cf. the Philippines.) Tropical heat and jungle forest. (Cf. the West

Indies.) Rice, manioc, cane sugar, palms. (Cf. Mauritius, the Deccan and Malaysia.) Communications. In recent years railways and metalled roads have been made.

Steamships connect the island we France.

Outlook. As in Ceylon and Java to a high degree, and in the Philippines and Malaya to a less well-developed extent, so in Madagascar, to a low but gradually expanding degree, the French are developing the natural resources of the country. (Cf. Indo-China and the Barbary States.)

MADRAS

The Metropolis of Southern India

by Edward E. Long

Author of British Rule in India ' etc.

THERE is no other city in India which has quite the same place in the affections of an English man as Madris. Bombin was founded by the Pertuguese, and became English liter; Calcintia is of English foundation but it is balf a century younger than Madris, which was the first city in India to be founded by the English and is a printed monument to the currage, foresight and untiring persuscrance of its eithest settlers and those who followed in their footsteps.

In the year 1639, in index in acquire a settlement neuter in the centres of the dyeling and weaking industries of south ern findia, Prancis Day, the chief infliend of the Last findin Company, at Annagon, obtained the grant of a small strip of land on which a small fort was creeted on the present site of Madras, and which, named fort St. George after the patton sunt of England, was the first fortified position held by the East India Company in India, with the exception of Arm gon.

When Fort St. George was Madras

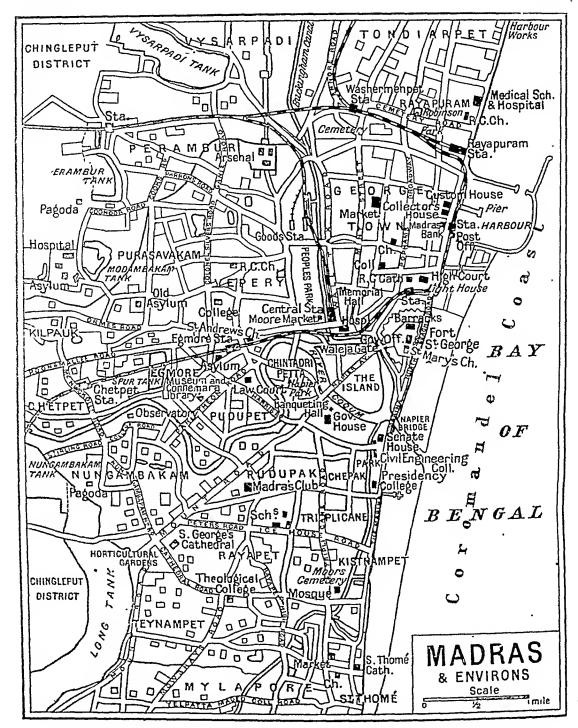
Close by, at St Thomé, was a Portuguese settlement which was not prospering, and the Portuguese invited Day to build there, but he preferred independence, and to his little station by the exceedingly wise offer of exemption from all taxation for a period of thirty years, he attracted several hundred families of weavers and others and Fort St George soon became quite a busy and thriving spot. In 164r it was made the headquarters of the East India Company on the Coromandel Coast and in 1658 the trading stations in Bengal were placed under its control.

For many years Fort St. George was Madras 1t consisted of a tower, or house enclosed by a rectangular wall post rids long by 100 yards wide with bistions it the four corners, and a number of roughly both tighten houses outside and surrounding it. Close to the sear was castly as allable therefrom especially is it was both lich and fortuled weakly for many years.

A Struffle for Mastery

Attacks by Diwood Khan a general nf the great Aurungrobe, and by the Marathas were beaten off but when 1746 Duplers heutenant. attacked Bourdonn us the Governor More capitulated tamely and he and his council were taken off to Pondicherry The great Clive was at that time a writer in the company's service at Madras, but he managed to avoid the ignorative of imprisonment by escaping with a few companions to Fort St. David. The Launch held Fort St George for three years, when the Treaty of An InChapelle restored it to England, and when the Last India Company regained passession it was unproved and strengthened, the old fort became practically enclosed within new one and this enabled the governor, Lord Pigot, in best off an attack of the Frenchman Lally in 1759

The greater part of the Fort was restored between 1763 and 1800, but in its present condition it retains its old-time character, and is a stirring memorial of the early days of British rule in India It is still in use as a fortress, garrisoned by British troops, and contains many of the principal government offices—the secretariat and council chamber and the military headquarters—and has an arsemal and a barracks, the former possessing many interesting trophies of



GREAT MARITIME CLEARING HOUSE FOR SOUTH INDIA'S TRADE

the wars in which the old army of Madras was engaged.

Madras is unlike any other large city in India. Situated 13° 4' north of the Equator, by sea 770 miles distant from Calcutta and nearly Soo from Bombay by rail, it is low-lying and almost dead level, its highest point being only 22 feet above the sea; and it is so widespread, has such broad, tree-flanked

roads, with buildings, often standing by themselves, in such large gardens and so hidden by the foliage surrounding them, that the impression gained is not that of a city at all, but rather of some tropical garden suburb.

The area covered by the city is nearly 30 square miles, or larger than that of either Calcutta or Bombay with their very much greater populations. This is

due to the fact that it has no obstacles to lateral expansion, such as the cities named; the cheapness of land, generally, encourages people in be content with houses of fewer storeys and more breatling space, and the whole city is more a collection of large villages, linked together and separated from the surrounding country by an arbitrary boundary line, than a city in the ordinary sense of the word

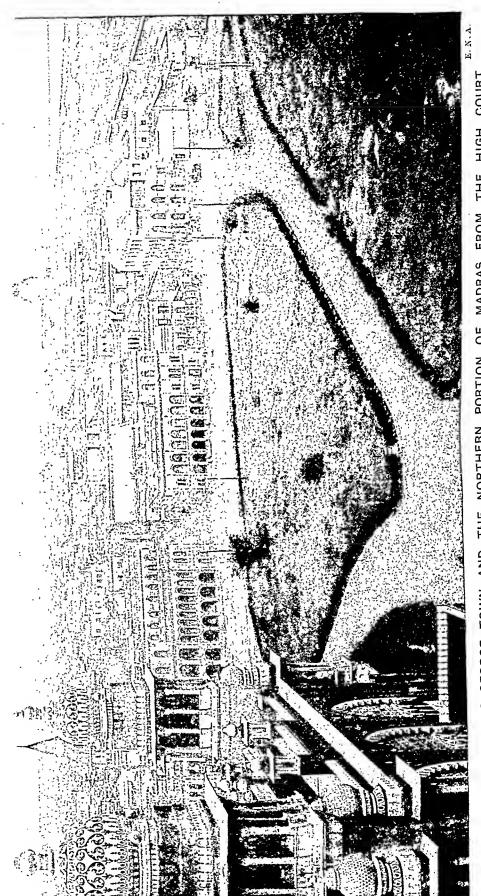
You have in remain for some time in Madras Ixfore you can realize that you are even near a big city. And then the place has such a sleepy old-world atmosphere, and such a number of the European-inhabited private houses are of the capacious and picture-que type of bygene days. Here, indeed, one can conjure up visions of the English who went to India nearly three hundred years ago. Their memory is still about their place. I am sure that at night their glinsts may be seen in pleasant.

lanes out Egmore way, in pairs, and later flitting into the Fort past the sentries—without the password

Most of European Madras was built at the end of the eighteenth and the beginning of the nineteenth centuries, and the place to-day stretches along the shore from Tondiarpet in the north for a distance of nine miles, and inland from a mile and a half to four miles On the north it is flanked by the Madras Railway and on the south by the Advar river A linge tank, known as the Long Tank, borders it on the southeast, and a small river, the Cooum, possessing like the Advar little water except during the rains, meanders through the heart of the city from west to cast. This stream falls into the sea just south of the Port, near which it divides and forms a small island, connected with the mainland on both sides by bridges On the south. opposite this island, is Government

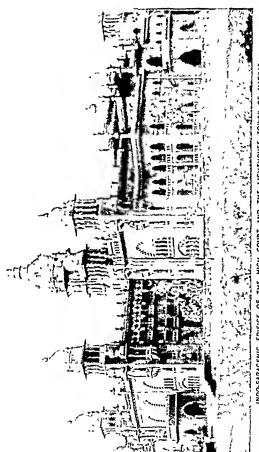


THRONGED STREET OF THE DENSELY POPULATED NATIVE QUARTER Formerly known as Black Town, George I own was renamed in honour of the visit of King George V. The commercial quirter faces the harbour, and behind this is the thickly hinhabition that its section with wide streets served by electric trans, and low houses and open front shops. South of Chepak Park is the Waltomedian quarter of Triplicane, bounded on the easi by the Marina

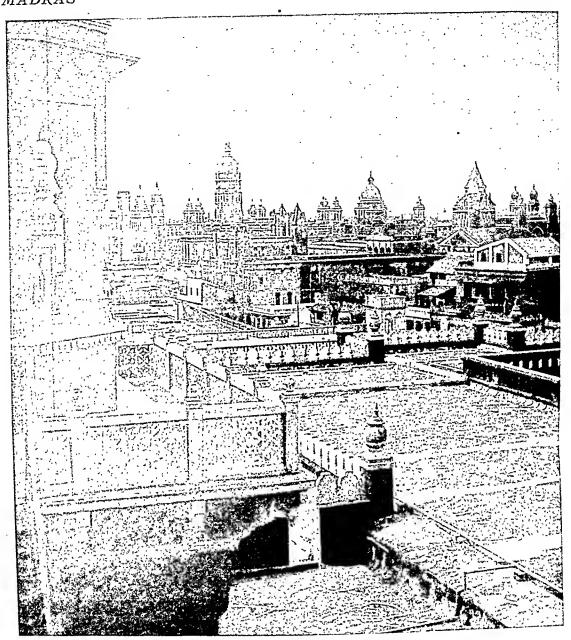


Just north of Fort St. George is the esplanade in which stands the High Court, and on the other side of the road passing these buildings is the crowded quarter of George Town. The prominent building with the two towers is the General Post Office, with one of the harbour breakwaters beyond. The fine three-storeyed George Town. The prominent building with the Y.M.C.A., and west of this are the Pachiappa College and Hall, the former having been opened in 1842. After structure opposite the High Court is that of the Y.M.C.A., and west of this are the Pachiappa College and Hall, the former having been opened in 1842. After structure opposite the High Court is that of the Y.M.C.A., and west of this sac the Pachiappa College and Hall, the former having been opened in 1842. After structure opposite the High Court is that of the Y.M.C.A., and west of this are the Pachiappa College and Hall, the former having been opened in 1842. GENERAL VIEW OF GEORGE TOWN AND THE NORTHERN PORTION OF MADRAS FROM

2585 MADRAS



Noth of lort 51 George is the O'I Dighth rise of the light is visible to make away at wes. The light commenced in 1981 and the Law Co atts were open.



LIGHTHOUSE TOWER AMID THE DOMES OF THE HIGH COURT
Seen thus from above its roofs the city skyline breaks out in dome and tower, spire and minaret, while the streets drive deep chasms between. A novel feature is the eelebrated tower of the lighthouse, the highest structure in this view, that overlooks all from its vantage above the High Court of which it is the most imposing part

House and the Banqueting Hall, surrounded by a spacious park extending to the sea front, and variously situated on the front are the beautiful office of the Revenue Board, the fine Presidency College, the Senate House, the Civil Engineering College and other government buildings.

The Fort is in the centre of the sea front, along the greater part of which runs a magnificent esplanade, the Marina, equal in construction, appearance and upkeep to the marine drive of many English watering-places, and here every evening the fashionable world of Madras repairs in its motor-cars to catch the cooling sea breezes and fortify itself for the pleasures of the night and the labours of the morrow. Just north of the Fort lies the harbour which has been greatly improved and extended and can now accommodate many vessels of heavy tonnage. It is a great boon to the place, for in the old open roadstead

MADRAS

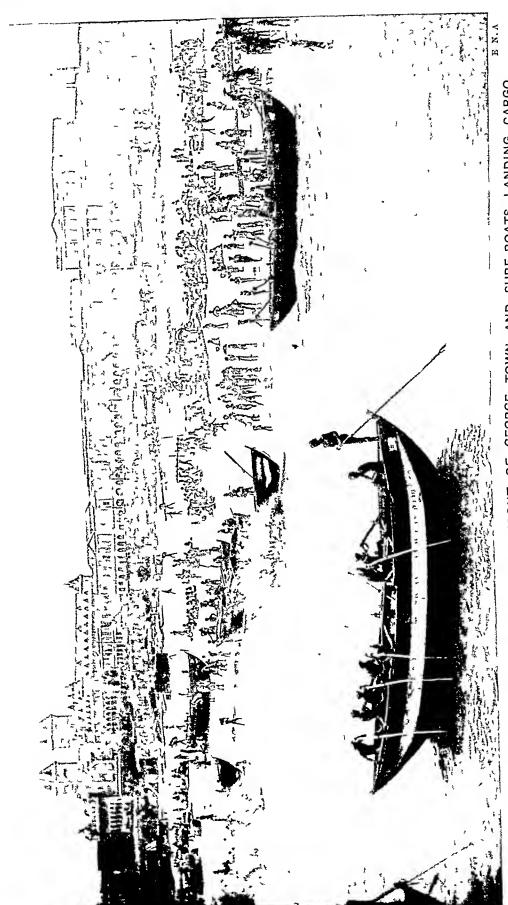


INTRICATELY CARVED GOPURAM ON THE OUTSKIRTS OF MADRAS
Vadras and its soil teles contains large number of temples and pug das the insports, of their times
Laung the classifier classifier

days landing was a laborious and linzardous process and frequent cyclones played havoe with the shipping. In 1746 La Bourdonnais lost three of his ships and two prizes in 1782 a hundred native crift were wrecked and in 1872 nine British and many native vessels were driven ashore the wind pressure being 53 rounds to the square foot

The mercantile quarter of Madras centres about the harbour where are the General Post Office Customs House.

Collector's House and various brinks and mercantile offices, well built and imposing structures. Formerly known as Blick Town, but re-named George Town after the visit of King George V when Prince of Wales in 1906, it is the most thickly populated quarter, and a good deal of it is ill built and squalld Tripheane the Mahomedan quarter just south of the island and Purusavakam and Vepery, on the west, where most of the many Lurisians live, come

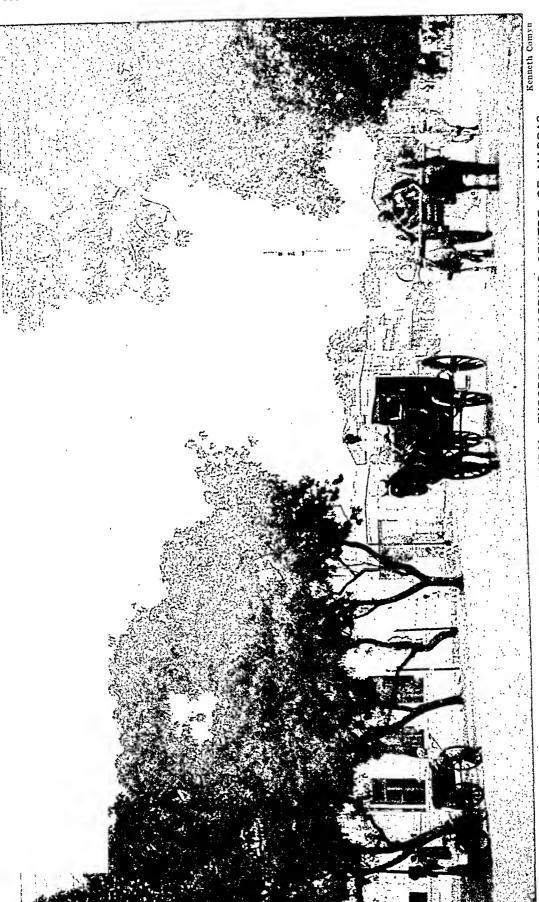


It covers an area of about 200 acres and 1s formed by breakwaters extending out from the shore 1,000 yards apart and guarded at their seaward end by a stress of about 200 acres and 1s formed by breakwaters extending along the top of the beach in front of the General Post Office and the Custom from the Madras and Southern India railways have losed but unfortunately the two systems use different gauges.

House to expedite the transit of goods, but unfortunately the two systems use different gauges. The harbour, therefore, has had to be entirely AND SURF-BOATS Like the greater part of the east coast of India, the coast at Madras is a sandy beach shelving out very gradually. NWOL OFFICE ON THE WATER FRONT OF GEORGE POST GENERAL

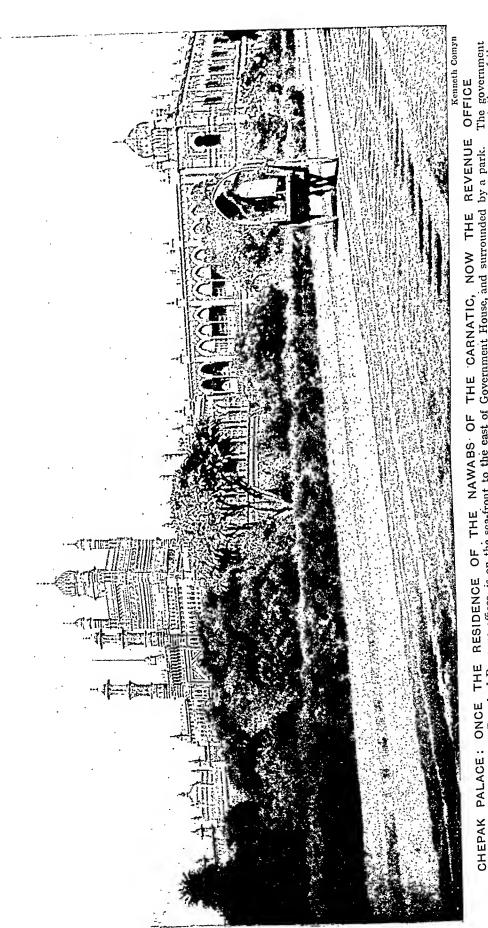


The Lashetts as a rule are of two kin to, the The knowledge of the trade is kept within the family the various families is rming he workers bring their stock of broad leafed rushes to some shady place that has been Other local specialities are cotton weaving ornaments of selver and sandal word carvings occupied by the practisers of their craft from time innermortal, and there they earry out their wide-mouthed for general purposes, and the lostife-shaped for storing grain. The knowled One of the many local industries of Madras is that of broket making comething approaching a guild

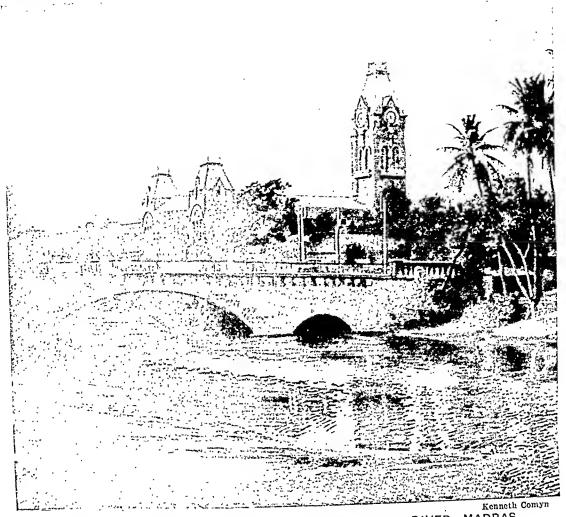


Mount Road extends from the Long Tank to Napier Avenue, which is a continuation, and on or near it are most of the best hotels, shops and banks. At the southwest end of the road are the Horticultural Gardens, which occupy an area of 22 areas and are beautifully laid out. Half-way between Government House west end of the road are the Horticultural Gardens, which is the statue of Brigadier-General Neill, who fell at the relief of Lucknow. Opposite Government House S. George's Cathedral is the Madras Club, in front of Wing Edward VII., by G. E. Wade, unveiled in 1903 THE PRINCIPAL EUROPEAN SHOPPING CENTRE OF MADRAS BROAD HIGHWAY OF, MOUNT





Chepak Palace, occupied by the Board of Revenue offices, is on the sca-front to the east of Government House, and surrounded by a park. The government has improved the palace, the whole building now being in the Moorish style. The entrance is through an ornamental gateway with porcelain representations of the has improved the palace, the whole building now being in the Scalage of the last, on the various incarnations of Vishnu. Attached to the palace on the south is the Presidency College, a fine structure in the Italian style. East of the last, on the scashore, is the marine aquarium, which is the only one in India; north of the palace is the Senate House



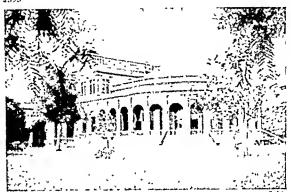
CENTRAL RAILWAY STATION AND THE COOUM RIVER, MADRAS
The Central Railway Station is one of the finest in India, and is surmounted by a clock tower 136 feet
high. Opposite the station is the General Hospital, which has accommodation for 500 beds and
records going back as far as 1829. The bridge over the Cooum, an unimportant stream flowing
through the city, carries the continuation of the Poonamallee Road towards Fort St. George

83° F. and the annual rainfall 49 inches, the fall being heaviest during the northeast monsoon, from October to December. Vegetation is very profuse and the frequent rains give the place a radiant freshness which goes far towards mitigating the oppressive heat and makes it comparatively dust-free, no small boon for an Indian city. Madras is very fortunate, too, in having several beautiful hill stations in the Nilgiris of which the chief is Ootacamund.

Madras is the capital of the Madras Presidency and the seat of the government, which is, however, moved to Ootacamund during the hottest weather, and the residence of the governor. The revenue of the city is administered by an Indian civil servant who is termed the Collector and the internal administration is in the hands of a municipal corporation, the most important of the municipal undertakings being excellent waterworks and drainage systems, while the Moore Market is well There is constructed and maintained. and the force police efficient metalled roads are well municipal and kept.

Communications are good. Railway lines run from Madras along the coast to Calcutta, across country to Bombay, south-west to Cochin and south to Tanjore and Madura, and thence to Rameswaram for Ceylon, while there are frequent steamer services to Calcutta and to Rangoon, to Colombo, the Straits Settlements and China, and to

MADRAS 2595



ARCADED BUILDING OF THE MUSEUM IN PANTHEDN ROAD

The blusses for need that a set of the control by far and occurs a concern formal in the the department of the control between the formal in the the department of a shopping and and as 2 grain who we were beautiful from on the life 10 that a translation and a fine control between the formal formal life 10 as in a control beautiful and a fine control beautiful as in the fine control beautiful as in the fine control beautiful as in the fine of the fine control beautiful as in the fine control beautif



GRACEFUL STRUCTURE OF THE VIGTORIA MEMORIAL HALL

Pantheon Road leads south west to Anderson's lifeling over the Cosum river, and on the right hand side is a fine group of buildings, including the Museum, technical institute, library and the new theatre, to which their city described like is a fine from the cost in the

MADRAS 2596

Europe. The Buckingham Canal provides cheap transit to and from places along the coast, connecting with the Kistna and Godavari canal systems, and all the great military roads of the south converge on Madras as a centre. An electric tramway service gives cheap and speedy transit about the city.

A Great Educational Centre

As the chief educational centre of the. Presidency, Madras has a fine university, constituted in 1857 and modelled on the style of London University. The general standard of education is remarkably high and the peculiar facility with which the English language is acquired by the Madrasi is an outstanding fact. no less than 14 per cent. of the Indian inhabitants of the city being able to read and write English; and it is quite. common thing for an ordinary Madrasi servant to use excellent English with quite a good pronunciation. As may be imagined, Madras is politically distinctly go-ahead, and it has furnished the Reform movement with many of its ablest writers and orators.

Madras is not an industrial city of any importance and its great distance from the coal-fields handicaps it severely. Indigenous handicrafts are decaying and they are not being replaced by factories of a modern type. However, it has some cotton mills, iron foundries, cigar factories and tanneries, and the Madras Railway has its workshops there. The chief indigenous arts are silk and cotton weaving, silver-work and embroidery. The silver-work is of fine quality and deserves to be better known.

Trade with Great Britain

The chief importance of Madras is as a distributing centre for southern India, and it ranks fourth among the ports of India in tonnage and fifth in the value of its trade. More than 70 per cent. of the imports and nearly 60 per cent. of the exports are brought from and sent to Great Britain the largest item in the imports being European piece-goods, then cotton-twist and yarn.

iron and steel, machinery and railway plant and kerosene oil. Hides and skins are the chief export, and then, in considerably less quantities, Indian piecegoods, indigo and raw cotton.

In point of population Madras is still the third city in India (527,000), but it bids fair to be displaced eventually, for its population is almost stationary. The explanation is that the wealthy and rapidly expanding city of Rangoon, just across the Bay of Bengal, offers high wages to labourers, and accordingly the Madrasi is continually seeking pastures new. Madras itself has little industrial development, is unable to retain much of its surplus population, and thus loses a good number of its virile workers.

Creeds and Castes of the Madrasis

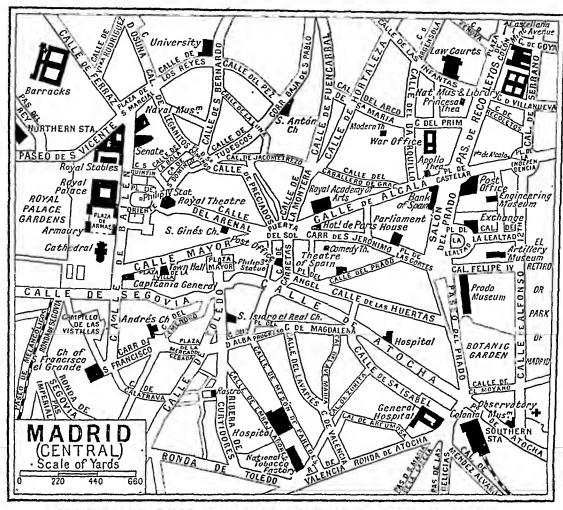
Of its people, mostly Hindus, the Tamil and Telegu castes, Dravidian by race and Hindu by religion, largely predominate. There is a fairly large Indian Christian population, 80 in every 1,000, due to the connexion with the Christian Church from its earliest times, the very old European establishments in southern India, and the special efforts of all Christian missions amongst the lowest caste and non-caste, pariah peoples-a most meritorious work. The percentage of Mahomedans, 112 per 1,000, is also high, the residence in Madras of the Mahomedan Prince of Arcot and his followers contributing to this.

Commerce and industry, government, personal and domestic service furnish the bulk of the population with its means of livelihood, but the learned and artistic professions are proportionately much larger than elsewhere in India and the number of persons of independent means is unusually high. The capital acquired by past generations is responsible for this, and as the centre of administration and capital of the Presidency Madras must always be able to maintain a numerous and influential population, while its facilities as a port should ensure its reputation as the commercial metropolis of southern India

MADRID

City of Old Romance & New Democracy by Mrs. Steurt Erskine

MADRID



PLAZAS AND THOROUGHFARES OF SPAIN'S STATELY CAPITAL

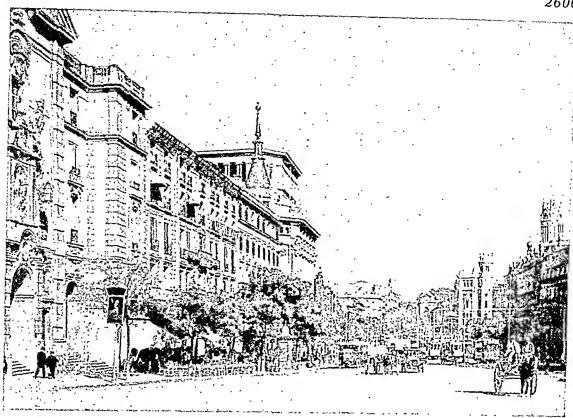
visiting Madrid. The older buildings were burned down and destroyed several times before the present imposing palace was erected between 1737 and 1764. The rooms in which Philip IV., the Planet King, entertained the wits of the golden century, and in which he watched Velazquez paint his immortal portraits, is no more. Instead, we have the massive grey granite structure designed by Filippo Jubara, an Italian architect, and completed after his death by his pupil Giovanni Battista Sachetti.

Built on sloping ground, its western façade is higher than the others, and the most imposing view of the palace is to be obtained from the other side of the Manzanares. But it is a magnificent building from any point of view. Four hundred and seventy feet square, and a hundred feet high, the main body of the palace is built round a courtyard; one

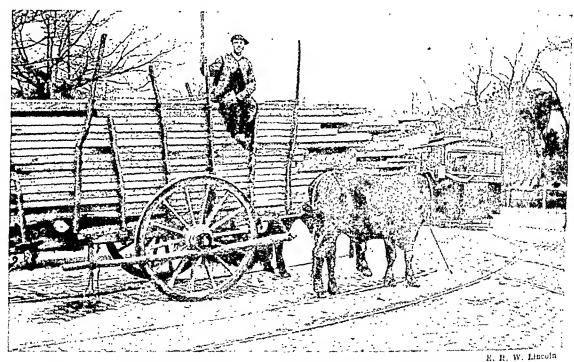
wing runs on the east side of the enclosure known as the Plaza de Armas; another, ending in an open arcade flanked by the Armoury, marks the western boundary. Iron railings connect the two wings, but the great doors are always open, and the outer courtyard of the king's palace is practically the playground of the poor. A sign, if one were needed, of the democratic spirit of modern Spain.

As you approach the entrance to the Plaza de Armas, you see a mounted guard pacing up and down, his silver helmet gleaming in the sun. Within the enclosure, if you time your visit to the right hour, you will be able to watch the halberdiers performing their daily evolutions, watched by an admiring crowd. When they have paced slowly and ceremoniously round the enclosure and have marched away, the crowd is admitted and proceeds to swarm all



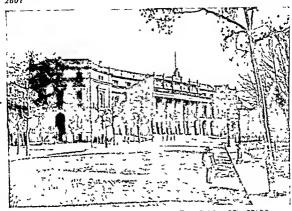


On the right is the post office in the Plaza de Castelar in which is the fountain of Cybele. The Plaza de la Independencia, surrounded by handsome private houses, has the Puerta de Alcalá in the centre. This triumphal gateway was erected in 1778 by Sabatini for Charles III. to commemorate his entrance into Madrid. The gate consists of five arches and is 72 feet high



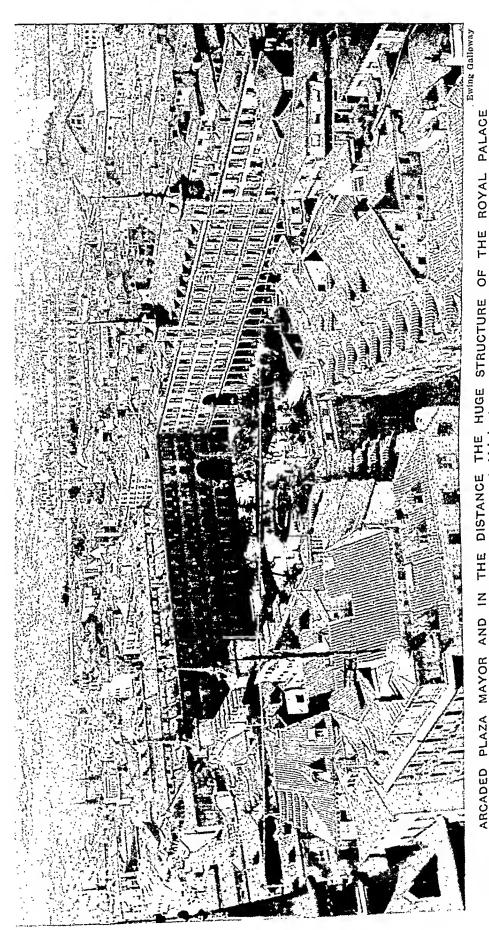
HEAVILY LADEN OX-CART ON THE TRAMWAY LINES IN MADRID Madrid has an extensive electric tramway system which has been developed and improved to such an extent that it is one of the best in any great city. As a contrast, oxen are still used for draught purposes in the outlying districts and are often seen in the capital. This cart is ingentously braked by a strong pole lashed tightly at the rear, thus bearing hard upon the hub

2601 MADRID





MADRID'S FINEST THOROUGHFARE THE CALLE DE ALCALA
Almost in the centre of the photocraph is a corner building surmounted by a phonix supporting
a figure, this is the Pedia's typagod (an insurance company) at the corner of the Calle del Coloder)
de Grae. The dome to the left down the Calle de, Aleal left may to the left is to de live Culturias,
dating from the sevententin century. On the right of the photograph is the Apollo Theatre



ARCADED PLAZA MAYOR AND IN THE CENTRE of which is a bronze equestrian statue of Philip III. This square was long used flor termination of the Calle de Toledo is the Plaza Mayor in the centre of which being specially suited to these spectacles. The plaza is now a garden and under terminate the contents, built-fights and autors do fe; the locality, 434 feet long and 334 feet wide, being specially suited to these spectacles. The plaza is now a garden and under the content of the peasants. In the Calle de Toledo are the open shops At the termination of the Calle de longo is the reast anyon in a continuous specially suited to these speciales. The plan teamments, buil-fights and autors do fe; the locality, 434 feet long and 334 feet wide, being specially suited to these speciales. The plan the arcades are shape full of spanish tops, coarse laces and the striking cotton handkerchiefs worn by the peasants. In the Calle do in which hang the red and yellow flannels which form a gay part of the costume of the poorer people. equestrian portrait in the Prado. At the end of the gall-ry is the tent that I must I used at Pavia and a hattered o'd curryin' of ur used by Chules V in his goney days, perhaps it was the one in which be trayelled over the rough resident the Sierra de Gredos on his way to his self imposed exite at Yinte.

While in the neighborhood of the palice, it is well to see the extensive staller where the king's stud may be seen as well as seene histeric couches Luttler of our the Calle de Bailen is the cathedral. It straids on the site of the often that the converted mongaring on the latter of the often that the converted mongaring on the same converted mongaring.

Pass to acres the Plara de Oriente, for the sale of which for ph Borquarie dombibled a driving orienteristand five his fred boses, and noting by the was the equestrian status of Pladip IV, modelled by Pictro Tucca, after the postrait by Velaquez, you pass the famous opera hories the Roy although the orienter the control of the control of the control of the postraid of the control of the Mayor, let be to the postraid of sold of Arenal, the control of sold of the control of the contr

Medrid's "Gate of the Sun"

At fest sold at it disappointme has little or no architectural distinction. being an of long space with ten rouls leading out of it, attends oursing the traffic to all parts of the torsu. In the centre of the plaza is a timele of trans lines and a congestion of yellow tramcars, all round are the many balcomed houses an I the shops and caf's that have replaced the convents and the churches of past times. But it is the people that rivet the attention. "The Gate of the Sun " Says I dmond de Angers, " is at once a valor a promenade, a theatre, an academy, a garden a place of arms, a market I rom daybreak till after undright there is a motionless crowd here as well as a multitude that comes and goes to and from the ten great streets that lead to the plaza "

To anyone interested in luminity, there are few more entertaining spots in Madrid than the Gate of the Sun Exergone passes through it at some time of the day or night. The continuous so noticeable in Spain are everywhere evident in the traffic. Smart motor cars alternate with country cuts thawn by mules, while monumental oven drag after them great blocks of grante from the Sierra. Among the pedestrians can be seen characteristic types engaged in characteristically schement conversation.

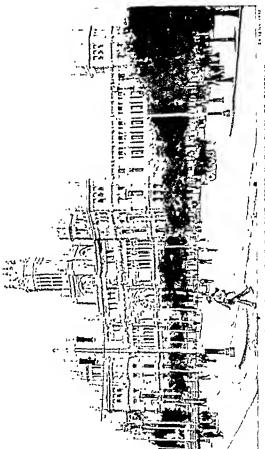
A Kaleidoscope of Humanity

Many groups, chiefly il not entirch composed of men stand on the sunuv side of the place in winter and on the shads in summer, discussing the top cs of the day Priests with open breviary, woenen with the little nightling that they wear going to church muses and bilees women shopping pedlus carrying little pertable frames on which are displayed such things as postereds, rubler bands and braces, professional idlers of all sorts, thread their way among the stationary groups. Illind minstrels stand in a line making music that is drowned by the traffic, beggars sit in the sun, old women cry out to all and sundry to buy lottery tickets, ens dish across the open space, hired carriages crawl and a couple of mounted policimen-the celebrated "pareja"served charte with an ecologotom ne

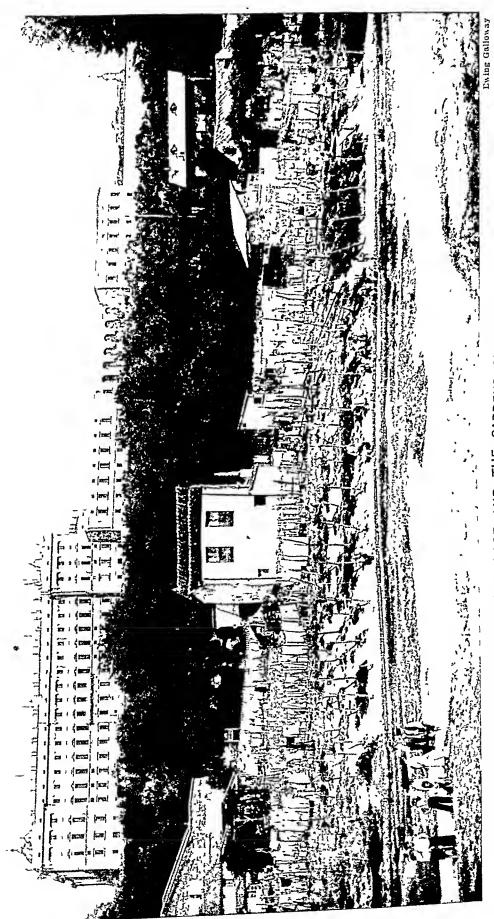
Hour of Chosts In the l'urres

There are no hours of the day, and very few of the night, that do not afford food for amisement or ribection. As night begins to fall the plaza is still full of life, but it is more pulpitating and subdied. Cars skin past on their way to the palace or the opera motor horishoot, trum lells ring, the traffic and the passes by have now something mysterious about them as the skies fade from blue to translucent green and the stars come out, one by one in the clear firmament over the flaming sky signs of the shows in the plaza.

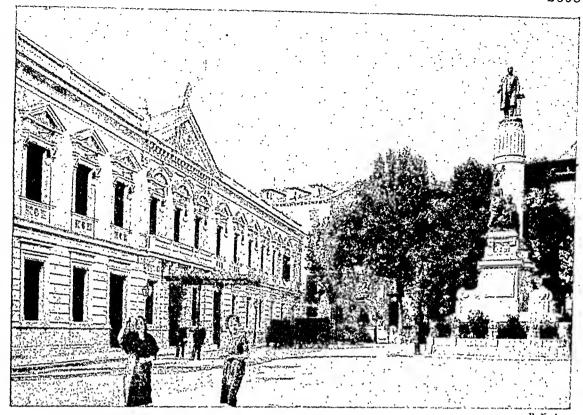
It is late, or rather early, before the last lotterers have drifted away and the train bells have ceased their petulant



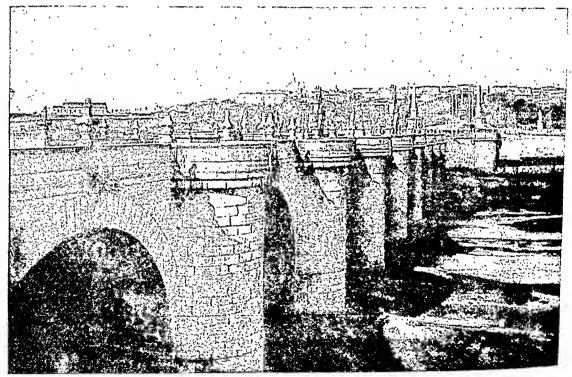
At the comer of the Hana de Casolin, expose the Park of equal such every post and prographs within easier with it reduces the first and level to the base of the format of the first and level to the first base of first every and the first and level to the first base of first every at the first base first base of first every first base OF THE POST OFFICE IN THE PLAZA DE CASTELAR mith relet, and if a whe e's summaned by a white r athe stat bet it a great navigal ? HUGE, LAVISHLY EMBELLISHED PILE



Facing the Plaza de Armas is the roval palace, a massive six-storeyed building, 500 feet square and from 80 feet to 165 feet high, which is considered to be one of the most magnificent in the world. The base is of grante and the window-work of white stone from Colmenar. The present palace was begun in 1737 on the supposed site of the Alexzar of the Moors, but the general effect is spoilt by the irregular, unsightly chimney-pots. The palace gardens occupy part of the site of the supposed site of the Madrid Campo del Moro and extend to the humble dwellings by the Manzanares—the wash-tub of Madrid WESTERN FACADE OF THE ROYAL PALACE AND THE GARDENS SLOPING DOWN TO THE MANZANARES



EL SENADO, THE MODERN BUILDING OF THE UPPER CHAMBER In the Plaza de los Ministerios stands a bronze statue of Antonio Cánovas del Castillo, the statesman, by J. Bilbao. On the north-west side is the Senate, the Upper Chamber, originally an Augustine college but now completely modernised. It was the meeting-place of the first Cortes in 1814. The building adjoins the Ministry of Marine and contains some very fine modern Spanish pictures



FINE PUENTE DE TOLEDO OVER THE MANZANARES AT MADRID
The Puente de Toledo spans the Manzanares at the south end of the Calle de Toledo. It has nine
simple arches and is 128 yards long by 36 feet wide. In the centre of the bridge are two ugly statues
of San Isidro, patron saint of Madrid, and his wife looking at the trickle of water crossed by this
magnificent bridge. At the other end of the Calle de Toledo is the Puerta de Toledo

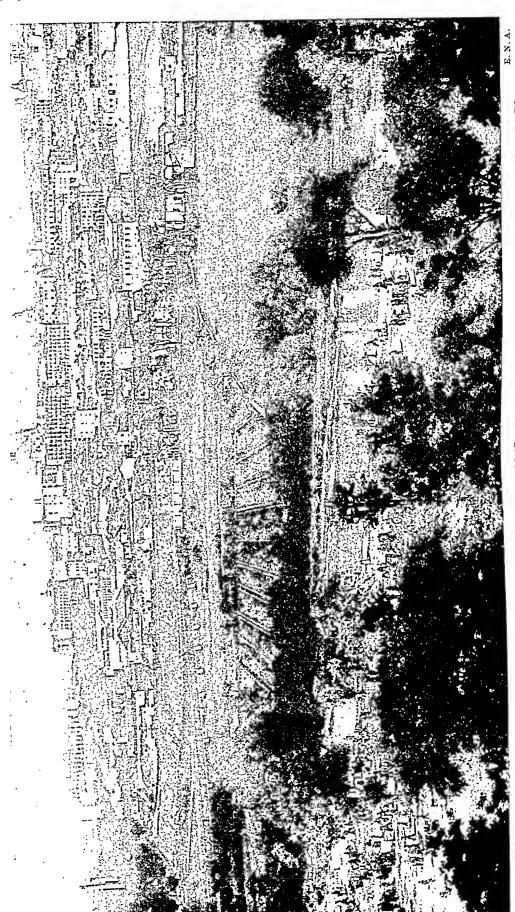
2609 · MADRID



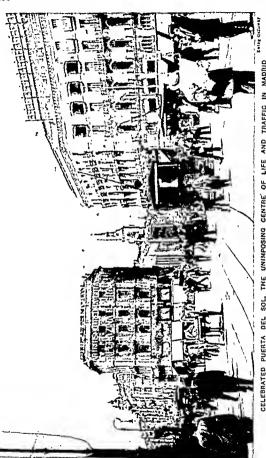
PLAZA DE LA VILLA WITH THE CASA DEL AVUNTAMIENTO
At the west exist the Calle Visyon's to Prize de I will him which stands a bronze statue of Admiral
Alviero de Brazin by Variano Paelhure on title Cies de Ayuntamiento est win hill. This building
was effeted in the seventeenth eighteenth centures and centum's a fine staterise und a charge orna
mented with frecord from the the of S 1 dira by Antonio I alon ino



PLAZA DE LAS CORTES AND THE PALACIO DEL CONGRESO
El Congreso de los Diputados, the House of Commons is held in the handsome edifice on the north
side of the Plaza de las Cortes. The building was completed in 1850. The steps leading up to the
Corinthian portico are flanked by two bronze homs. In the distance are tile spires of the church of
San Jerommo el Real built in 1903 and restored during the years 1879 to 1880.



On the left of the photograph is the royal palace with the Seminario to the right. Almost in the centre is the dome of San Francisco el Grande which was the national pantheon up to 1831. To the right of San Francisco to San Andrés which dates in its present form from the seventeenth century. The twin towers on the cartene right are those of the church of San Isidro el Real, which was a Jesuit church built in 1651. On the expulsion of the Jesuits in 1769 it towers on the extreme right whose bones were brought hither. The church contains some fine decorative painting by Coello and others LOOKING TOWARDS MADRID FROM THE HIGH GROUND ON THE WEST was consecrated to S. Isidro, whose bones were brought hither.



This knows quare was one the externe rate for eity and he we the center. It is an object show the ten coda; called, the thefor which we want to the construction of the center all the transvapines are the Calle Mayor and the Calle de Mails. The square is surrounded by shops, caffs and both, and in the center all the transvapines are timed up. The south side is occupied by the Mailstein of the Golermadow (led Flomes Office), wature, led and ending when was constructed for Charles III. by James Marquett and the statement of the frankewon for the ident and groups of Mailstein of the Charles III. by James Marquett LIFE AND TRAFFIC IN MADRID UNIMPOSING CENTRE

the priceless National Library, as well as lesser-known collections such as that brought together by the late Señor de Osma. In this museum are to be seen specimens of the arts and crafts of Spain, including a collection of the beautiful Hispano-Mauresque pottery.

Prevailing Blue Skies

The museum itself, built for a science museum, has been much improved lately, no less than twenty new rooms, tastefully decorated and well-lit, having been added. The pictures have been rearranged very advantageously. As is well known, there is no other place where Velazquez can be really studied; there is also a room devoted to El Greco, and many of Goya's most typical works may be seen here, so that these three outstanding luminaries of Spanish art can be studied together.

The climate of Madrid has been much abused. It is very hot in summer, and can be very cold in winter when the wind whistles over from the snowy peaks of the Guadarrama. But it is almost always sunny, and the sky is frequently of a vivid and translucent blue. Even in winter one is often quite warm walking down one of the great avenues, which become veritable sun-traps. On a fine day the drive to the Escurial, a distance of twenty-six miles, is a most enjoyable experience; or the shorter excursion to the Pardo, the hunting lodge of. Charles V., has its undoubted charm. Alcalá de Henares, with its Gothic university, Segovia, with its Roman aqueduct, and many other places of interest, are within reach of Madrid.

Madrid at its Gayest

The gayest time in Madrid is between Easter and June, after which date people drift off to San Sebastian and Biarritz, or perhaps to the cool regions round about Burgos. Society is very friendly, existing as it does among people who know each other well, and who are often bound by ties of relationship. Among the artistic set there is much activity and a great "esprit de corps." Intellectual

life is full of energy, and there is much talent to be found among the poets, writers, painters and sculptors. The educational question is also well to the fore, a centre of activity being the residence for students situated just outside the town, where foreigners can share the advantages with the natives. The Ateneo, the literary club, is also a centre where lectures are given and which contains an excellent library.

Society goes a good deal to the two principal hotels for amusement; most people are also subscribers to the Real" and the "Princesa" theatres, which are specially gay on certain nights of the week. There are balls and concerts court, and, at certain seasons, religious functions which anyone may attend. Although the suites of rooms with their satin-covered walls, their few perfect pictures and their multitude of "objets d'art" cannot be seen on the occasion of a "Capilla Publica," when the sovereigns walk in procession to the royal chapel, the public is admitted into the corridor that runs round the courtyard of the palace, and the glorious tapestries that are hung on the walls on these occasions are well worth a visit.

Long Nights of Gaiety

There is a new regime in the Spanish capital, and it is possible that many of the characteristic features and customs of the city may be changed in the future. Now that the officials of the public offices are expected to arrive at their desks at ten o'clock, perhaps the late hours so prevalent in Madrid will be modified. Tea at six o'clock, lasting perhaps till nine, dinner at nine-thirty or ten o'clock, theatres that begin at half-past ten and never end till after one o'clock, make the night short for Whatever changes may come over the political and social life of Madrid, let us hope that it will retain the elements of pleasant intercourse, and freedom to live the life that suits the individual, which have always characterised it in the past.

MALAYA

Where Riches Lie in Mine & Jungle

by Richard Curle

Author of " Into the East," etc.

THE periordic of Malaya is a unit partly in a geographical sense and partly because it is made up of limit either in the possession, under the protection or under the surveillance of Great Butain. Stucily, Malaya also includes various relatable belonging or subject to Great Butain, which are considered in the chapter on the Malay Archipolago.

The surface of the pennisula is mainly initialiting and its with watered by initialities streams and invers. Portions of the initerior, however, are moun timous, and there is a tange of bills which forms a watershed for twers flowing both east and west. The moun tains are an almost unbroken chun trem north to south near the centre of the pennisula, and some of the peaks are 7,000 feet in hoght. There are also solited groups of hills here and there.

The climite is thoroughly tropical, avitamichanifall lantithe sectionality seasons are less cleuly mirked thin in many other parts of the tropics.

Admin'stration of Melays

Politically speaking only the Straits Settlements, which include the islands of Singapore and Penang and small portions of the mainland at Malacca and Province Wellesley, are British territory. The l'ederated Malay States, which are under direct British protection and are ruled by British officials although they have sultans of their own. are Perak, Sclangor, Pahang and Negri Sembilan The Non-Federated States, over whose governance British influence is only nominal, are Johore, Kelintan, Trengganu, Kedah and Perlis. governor of the Straits Settlements is high commissioner for the Malay States,

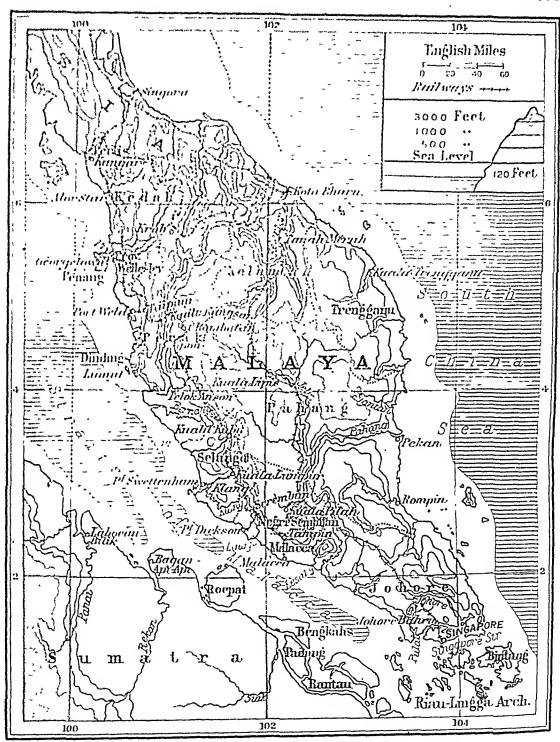
and all foreign policy, even in independent states, is in the builds of Britain.

Malaya is 500 miles long and varies in breadth from 40 to 200 miles. The total area in 75000 square miles, of this 52 600 square miles—an area about the size of England—is under direct British protection. It is bounded in the north his Stant, on the west by the Strait of Malarea, on the cast by the South Chim. Sea and on the south by the shiflow waters in which are the sluth of the Rau Lingay Archipelago.

Harbours in a Long Cossi-line

The coast-line of Malaya is, on the whole, regular and flat Most of the rivers have a bri at the mouth, and on the east coast there are numerous Ingoons Apart from the hubours nt Singapore and Penang, the harbour nt Port Swettenham is the only one capable of rectiving ocean going all, due totamna orla, has, remeste. interior by railway. There are, however, several smaller barbours on the west coast, at Malacca, Port Dickson, Lumet, etc., and on the east coast at the mouths of such rivers as the Pahang. the Kuantan and the Kelantan.

The three chief rivers are the Pahang, 200 times long, the Perak, 170 miles long, and the Kelantan. Other streams of note are the Patant and the Gelok, which is the boundary between Suan and Malaya, both flowing in the east, the Johore and the Pulat, flowing to the south, and the Kesang, the Linggi, the Klang and the Benrum, flowing to the west. The boundaries of most of the states composing Malaya are riverboundaries, and in a country such as this, which is inade up mostly of tropical jungle, these are the boundaries.



THE LONG, FOREST-CLAD PENINSULA OF MALAYA

one would expect. There are no lakes of any size in Malaya, but in various spots there are hot springs with temperatures varying from 90° to 180° F.

The aspect of the country away from the towns and cultivated areas is one of vast green forests covering plains and mountains alike, and interspersed by turbid rivers which form deep valleys. The soil of Malaya is extremely rich. There are coastal alluvial deposits, and a bore of 352 feet taken near the mouth of the Bernam river did not reach the bottom of them. The soils of the country may be divided into three classes: the alluvial deposits of the coasts or river banks, which are usually heavy; the laterite, loamy soils of the

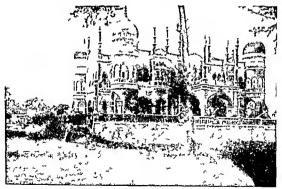
fully areas of the interior and the pert soils found mostly near the coast and also in inland swamps

There is no part of Malaya which lies very far from the Equator and con sequently the heat is usually great. A mean daily maximum temperature of 95°F in the shade at Tanjong Rambutan is probably the hottest whereas at Kroh which is about 1 000 feet all ove sea level the mean daily minimum of 64° is recorded. This proves how even a slight elevation may afford great relief. As for sun temperatures the figures in Kuala I umpur range between 140° and 151° So fir as concerns locality as distinct from the ation Malayan temperatures seem to change but little throughout the year and so seasons searcely exist

In the mountains the runfall is extremely heavy but in other parts though still heavy is much less marked I requently there is a tropical downpour towards excuring but these downpours are often extraordinarily local and generally last but a short time. It is a land of blazing sunshine but the approach of rain is swiftly heralded by heavy clouds which as swiftly disappear and give way to skies of blue when the downpoin has cassed.

There are two seasonal winds the south west and the north east monsoons but Sumarta breaks up the south west monsoon and the only really important wind is the north east monsoon which blows off the Gulf of Sam between November and March. The period of the south west monsoon is from May to October and this is marked by soft southerly wind on the cast coast. Really powerful winds with the strength of a typhoon are miknown but the squalls are at times sufficient to damage rubber estates and lightly constructed nature buildings.

As regards health Malia exames enormonly. In some parts at its highly undarral and in other part, such as the country around Kuala Lumpur, there seems to be comparatively little seri us malaria, though, of course, the danger always exists. While I properms are ill.



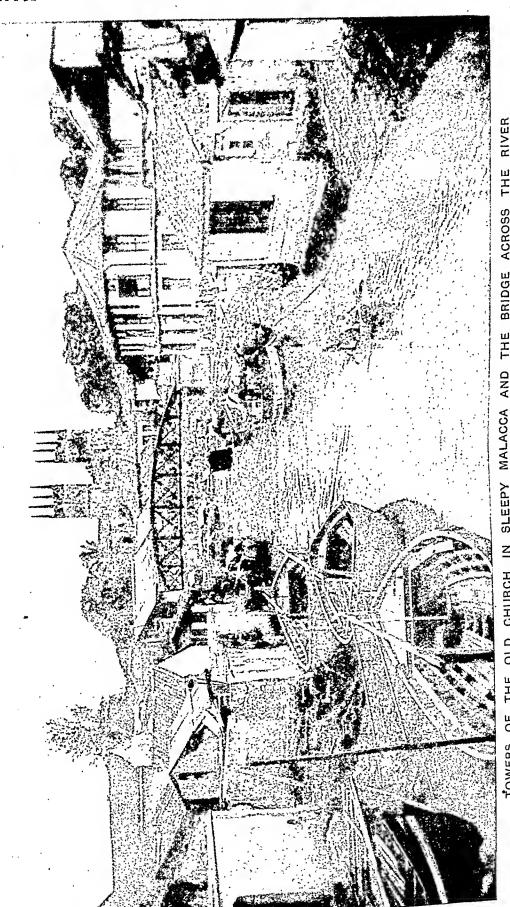
IMPOSING PALACE OF THE SULTAN OF SELANGOR AT KLANG

I lang a a small to of Sclangor on ite river of the same name alo t e git lies from lort

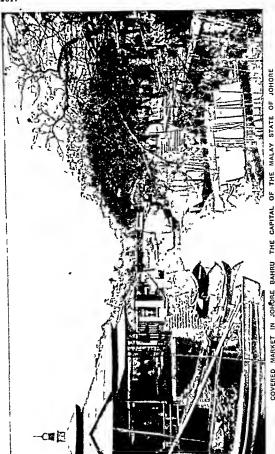
Swettenham A branch of the ril ay from I unal Lumpur pas es throg i the to a to Pos

Svettenham which is a port of call for ocean going steamers and after Singapore lie chef

rubber prot of Malaya. Klang is the seat of the sultan of the state



bank of which lies the old Dutch town which is connected by a bridge with the business quarter, inhabited chiefly by Malays, Eurasians and is a sonnolent little place with an indifferent harbour, and the trade of its once flourishing port has been drawn to Singapore and Penang at either end of the Strait of Malaeca. Tapioca is cultivated, but the district is especially noted for rubber planting Malacea is a town on the west coast of the Malay Peninsula and with the territory around it forms one of the Straits Settlements. eiver on the right bank of which lies the old Dutch town which is connected by a bridge with the business quarter, inhabited chiefly leaves. Malacea is a sonnolent little place with an indifferent harbour, and the trade of its once douriehing nort has been drawn to TOWERS OF THE

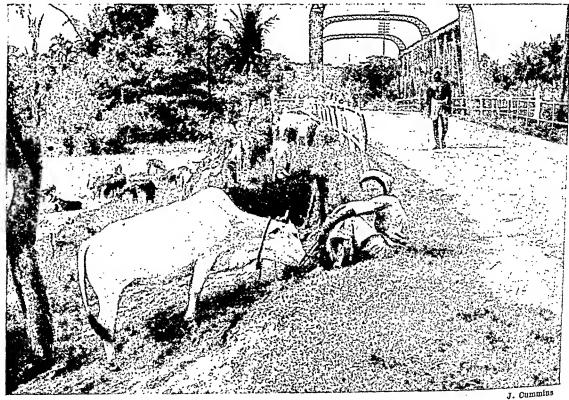


the Citaese outh more the Native. Arecanuts of pra where Bahru ever the Joh re Causeway Ti era lway fr m Singapore crosses to the mainland at Johore Bahru is the capital of a sultanate in the Malay Penmula under British Singapore. The fine palace built by the Sultan Abubakar is the most n It was once famous for its gaming houses. and rubber are the principal exports being cooler than the



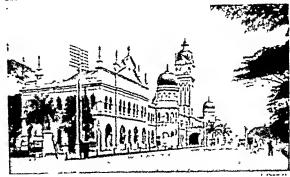
RAILWAY UNDER HUGE GREEN-TOPPED CLIFFS IN SELANGOR

Granite mountains, which stretch in a south-easterly direction for about 350 miles, form the backbone of the Malay Peninsula. The country is covered with limestone in many districts, and large bluffs of this formation occur on the western and eastern slopes. Magnificent caves are found on both declivities, those at Batu, near where the above photograph was taken, being the finest on the west coast



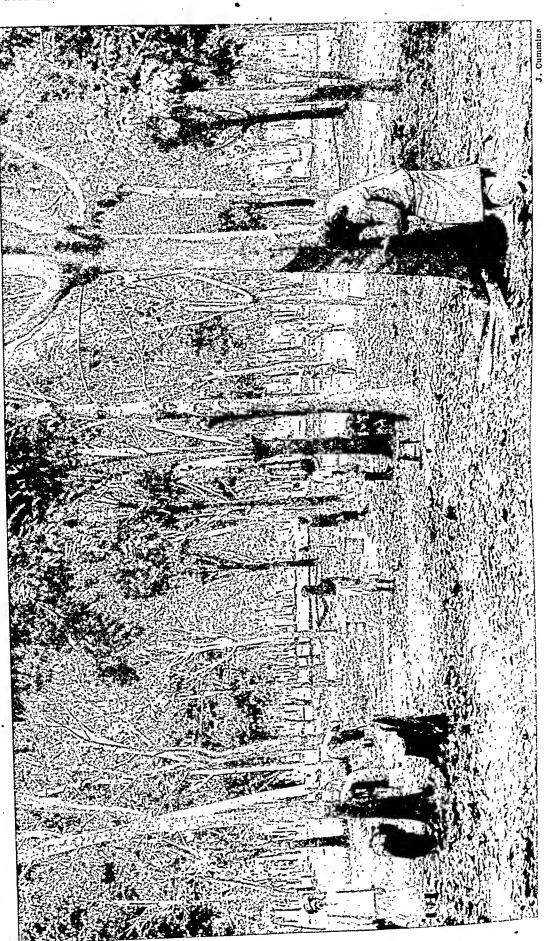
BRIDGE OVER THE KLANG RIVER OUTSIDE KUALA LUMPUR
All the towns and principal mining centres in the states of Perak, Selangor and Negri Sembilan are
connected by metalled roads which are well bridged and carefully kept up by the government.
Motor cars ply for hire over these roads from every town and village. An important road 85
miles in length connects Kuala Kubu in Selangor with Kuala Lipis, the capital of Pahang

MALAYA 2619





HONG KONG AND SHANGHAI BANK BUILDING AT KUALA LUMPUR hould lump the capital of the state of Selant n is the largest town and chief rails ny function of the before the state of the state of Selant n is the hought state of the s



he peninsula. The trees have to om four to five hundred trees a With rubber the Hevea variety is chiefly used and is grown both on the leading back from this to the main central range of the peninsula. THE MALAY PENINSULA RUBBER PLANTATION IN TAPPING

2O1 SIALAYA



they usually go to Java to recuperate, though there are a few hill stations in Malaya. But it is not a country in which the European can readily find those changes of climate that make India bearable.

Layers of Forest Life

As we have seen, Malaya is primarily a country of huge, unbroken forests. Its flora is extremely rich and immensely The recorded number of complex. species of flowering plants and ferns is over 9,000, and of these about 30 per cent. are trees. There are, indeed, more different species of trees in Malaya than in the whole of British India and Burma. The typical Malayan forest is, as it were, several storeys high: top, trees from 150 to 200 feet; second, trees of about 100 feet; first, small trees and shrubs: while the ground floor of the forest is one mass of tangled plants and ferns. Along the coast are great mangrove swamps, and in the interior there are vast fresli-water swamps which cover about one-tenth of the peninsula's surface. Beyond the altitude of 2,000 feet the forests are of a different type; trees are comparatively short and their trunks are covered with mosses, lichens, orchids and ferns.

In some parts the forests have been considerably denuded already and other parts are not profitable to work. The swamp woods have no value, and the forests at a higher altitude comparatively little. Moreover, it is dangerous to cut down the hillside forests, as they protect water supplies and stop erosion.

Wealth of Animals and Birds

A single square mile of forest will usually contain several hundred varieties of trees, but more than half of the woods commercially valuable is produced by the trees of the family of Dipterocarpaceae. The standard timber is chengul. Other valuable forest products are canes, damar and gutta-percha. The rattan semambu is made into the Malacca cane of commerce, but rattan segar is of even greater importance. Camphor is also

found to a small extent. Apart from alienated forest lands, the forests belong to the states, and their control is in the hands of a forest department.

As regards animals, Malaya is singularly well equipped. There are three species of anthropoid ape, two or three of gibbon and four other kinds of monkey. Tigers, leopards, wild cats, civets, mongooses, otters, small bears, elephants, rhinoceroses, tapirs, pigs, deer, wild cattle, squirrels, rats, porcupines—all these are to be found in the peninsula. There are bats in incredible numbers—one may see, hear and smell them by day in the enormous dolomite caves which are a feature of the country —also crocodiles, tortoises and lizards. There are over 130 different snakes and about 650 species of birds. Butterflies are in great variety, many of them of exquisite beauty.

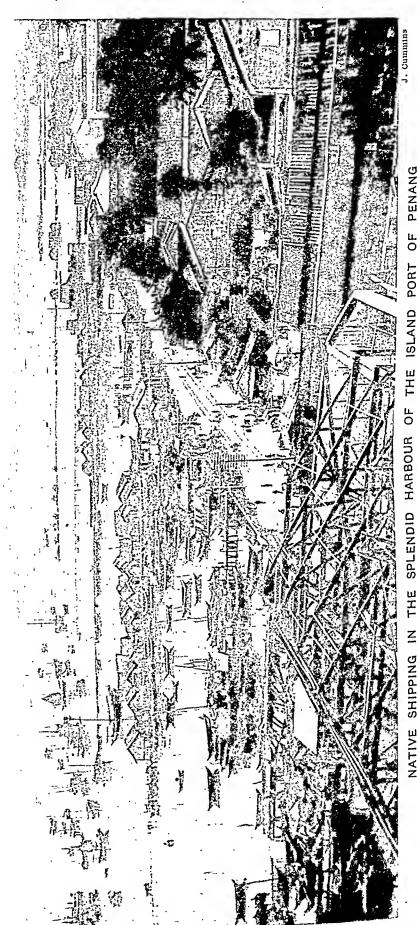
Technique in Rubber Growing

Rubber is, of course, the mainstay of Malaya, and thousands upon thousands of acres have been won from the jungle and planted with the Para rubber from the regions of the Amazon. The rubber planter has to wage a ceaseless warfare against the encroaching forest, and gangs of coolies are always at work on every estate, weeding and keeping the place The Lalang grass, especially, which seems to spring up almost in a night, is what the planter dreads. Rubplanting and the treatment of drainage and soils have developed into a highly scientific profession, as also has the fighting of that pest which attacks the bark of the rubber-trees. earlier days the planters were able to earn such large profits, and had so little experience, that they made many mistakes with impunity, but now there is a whole technology of rubber planting, and the planter knows from experience the best way to tap, when to tap, and how to keep his trees healthy.

The soil of Malaya, as I have already remarked, is so naturally rich that almost any tropical produce will grow in it. But now rubber has supplanted 2623 MALAYA

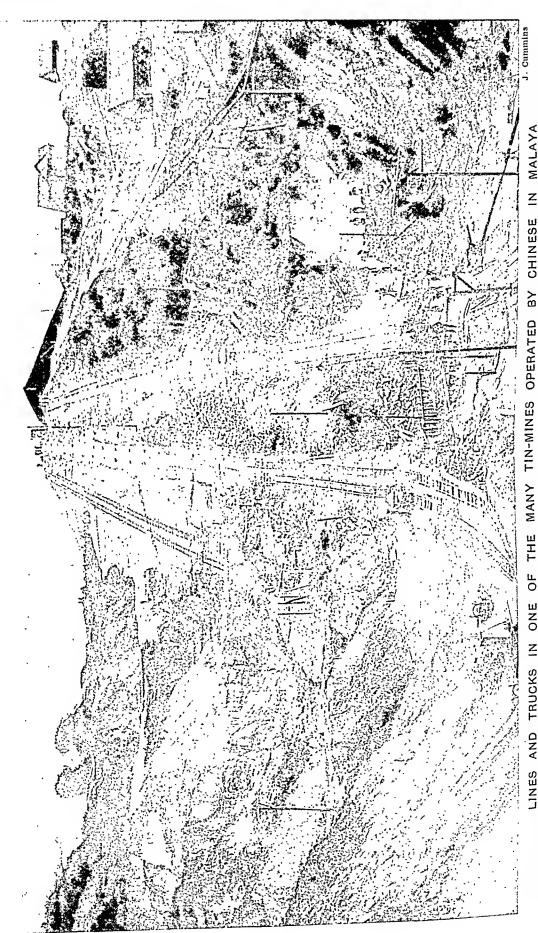


PATH THROUGH THE FORESTS OF THE HIGHLANDS OF MALAYA Amont the whole of the peninsha may be described as an abuse text which is intersected in every direction by streams and risers. Only a very small portion of the firsts and jumples has been shirted by human beings as the Malays travel along the banks of the risers. The livests coulain valuable timber such as chearyl and merantil, and the jumples just guits percha, jeltings and rattans.



il of the Settlements until One of the features of the The town is built on a promontory at the Penang is situated on the island of Penang which lies two and a half miles from the west coast of the Malay peninsula. The town is built on a propose the mainland and possesses an excellent harbour, but has suffered from the competition of Singapore. It was the capital of the Spoint nearest the mainland and possesses an excellent harbour, but has suffered from the constitution of Singapore. It was the capital of the Singapore. Coconuts grow along the ceast and rice is cultivated in the interior. One of the town, which is also called Georgetown, is the clusters of native huts on piers which project from the shore out into the harbour OF PENANG NATIVE





The Federated Malay States to-day produce just a little more than 30 per cent, of the tin of the world. The tin is won mainly from alluvial deposits in the states of Perak, Selangor and Negri Sembilan on the west coast, while in Pahang there are large areas as yet untouched. For a long time the mines were almost exclusively worked by Chinese capital and labour, but the few lode workings are now practically all in the hands of Europeans and many of the alluvial deposits



with those of England, make this a matter of less consequence than it would otherwise be. The peninsula is well served both by main steamship routes to most parts of the world and by local coast craft. One may wonder, indeed, whether there are many portions of the globe easier to get to or to get from than Malaya.

Malaya is not a self-supporting country, and foodstuffs form about half the total imports. The only duties levied are on alcoholic liquor, tobacco and petroleum and oil for local consumption. Most of the exports go to England and the United States, but there is also a large trade with the Dutch East Indies. Singapore, dealt with in a separate chapter, is a great oil-distributing centre and the Asiatic Petroleum Company have most of this business in their hands.

Penang, an island about the size of the Isle of Wight, has a population of 123,000, but almost the whole of this is concentrated in the capital, Georgetown, which is usually itself called Penang. It is a beautiful town, with a great hill rising just beyond, and is full of Eastern colour and the fine houses of Chinese merchant-princes.

• The town of next importance is Kuala Lumpur, the capital of the state of Selangor and the seat of the Federal Government. This has a population of some 80,000, and is a thoroughly modern town of handsome government buildings and general offices. Ipoh, in Perak, the centre of a rich tin district, is a growing town, situated like Kuala Lumpur on the main line.

Malacca, on the east coast, is now of much less importance than it used to be, though it is actually the oldest European possession in the Far East and still retains some evidences of the Portuguese who were its first rulers.

The foremost town in Johore is Johore Bahru, which lies on the main line just across the Strait from Singapore and used to be the place, before the causeway was built, where passengers for Singapore had to leave the train.

Although many natives live in the towns, the real native life can only be studied in the jungle villages or kampongs. The modern Malay likes to dwell in a wooden hut, and he still retains his affection for dwellings built on piles. Some of the aborigines, however-for the Malays probably came from Java not so many centuries agolive in lofty tree-huts or in leaf shelters propped on sticks. While the cities and considerable towns have a strong . veneer of European characteristics, the country villages are entirely unsophisticated. The bungalows of Europeans on the estates are usually thatched with palm, and are constructed mainly on the principles of keeping out the sun and of airy roominess.

MALAYA: GEOGRAPHICAL SUMMARY

Natural Division. South pointing peninsula, part of the fringe of the Pacific Ocean. (Cf. California Peninsula.) A mountainous backbone is flanked by coastal lowlands with mangrove swamps and is drained by rivers which make extensive alluvial flats. (Cf. Queensland, Java.)

Climate and Vegetation. Tropical heat and tropical rains, with seasonal winds. The (summer) south wind connected with the south-west monsoon of the Indian Ocean and the (winter) north-east trade wind from the Pacific Ocean. Tropical forest.

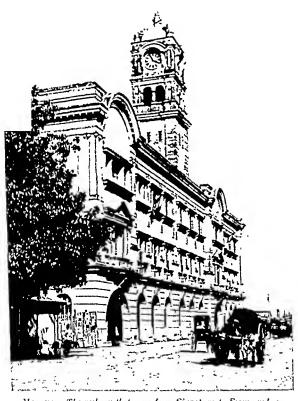
Products. Mainly plantation rubber (cf. Ceylon, Java) and tin (cf. Banca, in the Malay Archipelago). Also copra, damars, rattans, palm-oil, gutta-percha, pineapples and gambier. The tapioca, pepper

and spice trade is no longer of primary importance. The products are exported in the crude state.

Communications. The Strait of Malacca is almost as great a "steamer passage" as that of Gibraltar. Singapore is one of the world's great entrepots. The railways admirably serve the interests of the trading community.

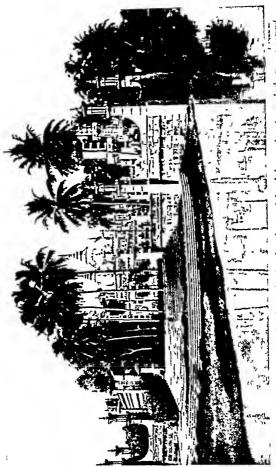
Outlook. Malaya has been developed by the labour of aliens—Tamils as labourers, Chinese as entrepreneurs and Europeans, notably British, as capitalists and organizers. In a strong position as regards tin but weakly dependent upon world supplies and world prices as regards rubber, the country's recent development into a peaceful and law-abiding community is a happy augury.



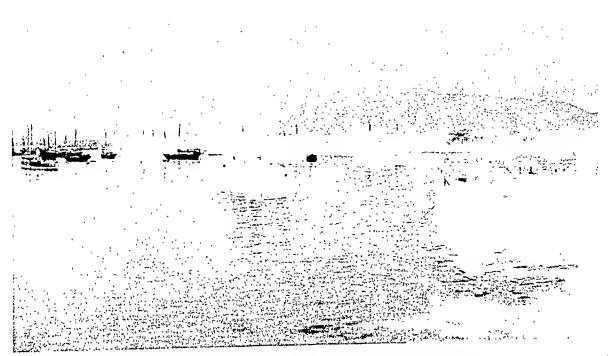


MALAYA. The railway that runs from Singapore to Siam sends a branch to Prai, whence a steam ferry plies to this terminus at Penang 2629 I M 4





Maxyya. Shaded by the feather dester heads of palms and lased by qued gaters, which gis a seem preduce of to vers and balastrade, this mosque is one of the sights of Kuala Lumpur by the Klang et er



MALAYA. Penang Island and its town are separated from Provin Wellesley on the mainland by an arm of the sea about five miles acros

MALAYA. Like the fingers of a hand in the centre of the peninsula number of small rivers creep through the jungle to form the great Pahang



here is a fine harlour with deep water and entrances from the north it south. Notice the axings sheltering each deek against the toreid sin



On its curring course to the China sia near Pekini sampans (ith palmthatched cabins, piled untidity with household sear are the usual craft



MALAY ARCHIDELAGO. In Sumatra the planter has often to ent his plantations out of jungle. This is an embryo tobacco e tabel 2636

MALAY ARCHIPELAGO

Tropic Bounty of the Isles of Enigma

by Richard Curle

Author of "Into the Fast" etc.

THE islands of which this chapter treats rest on a vast submerged bank, at no place deeper than a hundred fathoms below sea level. It is, in fact, a sinken continuation of the continent of Asia. The islands are divided between the regions of Asia and Australia, and this is evident in their inhabitants, their geography, their zoology and their botany, all of which, from either end of the archipelago, mergre in the middle islands.

Although the appearance and scenery of the group vary greatly, nevertheless, geographically speaking, the volcanic ranges which are so general a feature may be said to be but one range. All the Dutch East Indies, with the exception of the far eastern ones, comprise, as it were, one vast continent broken

up into fragments

From the point of view of climate, the islands which run from west to east and are clustered on either side of the Equator—the Equator actually cuts through Sumatra, Celebes and Gilolo—though chiefly on the south of it, have few distinguishing features. Of course there are infinite variations according to altitude, etc, but all the islands are situated in the centre of the tropics and all of them possess the characteris ties of tropical climates.

Dutch Possessions in the East

Politically all the islands with which this article deals belong to Holland, save only a part of Timor which belongs to Portugal, and are ruled by a governorgeneral, who lives in Java They lie between the Indian and the Pacific Oceans, to the south is Australia and to the north Malaya, the South China Sea and the Philippine Islands The total area of the archipelago, excluding Borneo and New Guinea, both of which are discussed elsewhere, is about 349 000 square miles and the total population about 46,500,000

The archipelage, as we have seen, is extremely mountainous and extremely volcanic. The mountains run for the most part from north-west to south-east, or from west to east.

A Garment of Primeval Porest

Apart from Jaa, which is cultivated to the extent of about 40 per cent, the slands are still for the most part eovered with primeval jungle. The coast line differs enormously in its formation—for instance one side of Java is rugged and broken, while the other side is swampy and flat—and no statement of general accuracy can be made

As to rivers, while they exist in immense numbers and while many of them in the larger islands are of considerable length, few of them are of much commercial importance. The islands are so steep and broken that navigation, save in small boats is seldom practicable. The usual aspect of the islands is that of tropical riot and luxuriance. The rainfall is, on the whole, enormous, and the fecundity of nature is nowhere seen to more extravagent advantage than in the bewildering and interminable forests that overrun the islands with their green mantle.

The principal rainy season falls between October and March, and then indeed the downpours are terrific. The islands lie either under dark thunder-clouds or in a brilliant and terrible sunshine. The north west and the south east monsoons are the chief winds that blow, and it is currous to note that

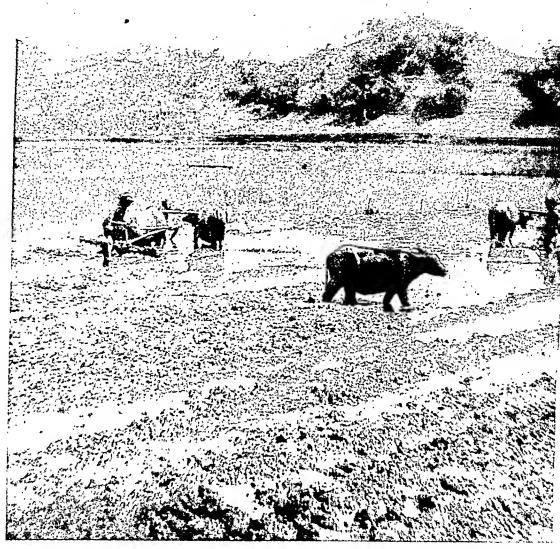






Java far-famed for its tropical cultivation. In some parts, chicity in the West, the mountains are clothed with forests of unexampled fuxuriance of summits; the soil, exceedingly fertile throughout the island, yields splendid crops and all the necessaries of life may be had in abundance and almost constant moisture are responsible for the profuse and varied vegetation, and the progressive nature and steady industry of lava has been called an island of superlatives and "the most fertile, the most productive and the most populous island within the EAST INDIES DUTCH TROPICAL RIOT





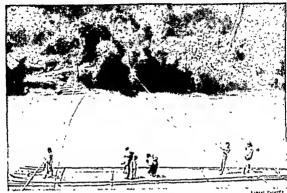
RICE-FIELD WHENCE THE JAVANESE STAPLE DIET IS DRAWN Rice is grown extensively in Java, but mainly on irrigated land, and the natives are particularly attentive to its cultivation, although they still persist in tilling their rice-fields by traditional methods and with primitive implements. Two and sometimes three crops are harvested a year, but vegetables are now grown after the first crop to prevent the soil from becoming exhausted

The government mails between island and island are carried by the Dutch Royal Packet Company, and there is also a certain amount of communication by other lines and by native craft. A regular service of steamships is kept up between Holland and Java, which is also in touch with England by constant sailings. Java is linked up with such islands as Sumatra, Madura and Bali by cable, and it is, of course, possible to cable via different exchanges with the rest of the world.

On most of the islands transport is in a very undeveloped state, and jungle tracks often take the place of roads; but in Java transport by road and railway is developed almost as it might be in Europe. The principal exports of the Dutch East Indies go to Holland, though China is a big buyer, and consist of the usual tropical products, sugar, tobacco, copra, gums, coffee, spices, rice, tin and petroleum.

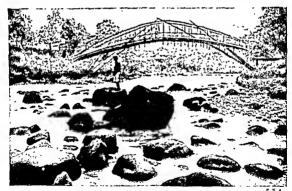
All questions of towns, health conditions and characteristics of the inhabitants are apt to vary so enormously that they cannot be discussed generally but must fall under the discussions of the various islands.

The Dutch East Indies were first colonised, so far as Europeans are



BAMBOO RAFT AS RIVER FERRY IN WEST JAVA

Java has numerous rivers, but as rivans of communication they are relatively undimportant. Only two or if the are navigable by vessels larger than the native praw, and the oft repeated attempts to improve them meet with little success on account of the continual deposit of silt and it tempts do need. Indeed, are few and far between, but the native devices for trivialing the waterways are many



NATIVE INGENUITY IN A BAMBOO BRIDGE AT BUITENZORG

South of Batavia, 35 miles by rall, fies Builtenorg with its famous botanical garden, one of the finest in the world. Lying at an allitude of 875 feet, the town it a socied for its refreshing cituate and here the governor-general of the Butch East ladies has its summer residence. This bridge is only one of the many ingenious bamboo structures of the Javanese natives

concerned, by the Portuguese in 1509. It was in 1596 that the Dutch came into conflict with the Portuguese in Java, and in 1602 that the Dutch East India Company, with which, for nearly two centuries, the history of the archipelago was bound up, was founded. From 1811 to 1816 the British occupied many of the islands, but for more than a hundred years the Dutch have been in complete nominal possession.

Sumatra's Hills and Rivers

Let us now consider in greater detail, following roughly the line of the archipelago from west to east, some of the larger islands. The vast island of Sumatra, which after Australia, New Guinea and Borneo is the largest island in the world, with an area of 160,000 square miles—over three times the size of Java and thirteen times the size of Holland—has nevertheless a population estimated at only about five millions, although it could probably support one of about sixty or seventy millions.

A huge range of hills, the Barisans, runs down the 1,100-mile length of Sumatra, and some of the peaks rise to The western slopes of this 12,000 feet. range descend rapidly to the ocean, but beyond the eastern slopes there are extensive plains. It thus follows that the rivers on the western side are of small importance, whereas on the eastern side there are several large rivers many hundreds of miles in length and navigable for long stretches by craft drawing from six to ten feet. But most of the streams contain bars at the mouth and rapids farther up, and water navigation is not of any great commercial account.

Lakes in Extinct Volcanoes

Like Java, Sumatra is highly volcanic, and many of its numerous lakes occupy the craters of extinct volcanoes. The largest lake, Toba, has an area of 800 square miles, and other lakes of importance are Maninyu, Singkara and Ranua. The temperature is very much the same as that of Java, and the

average yearly rainfall is no less than 139 inches. Most of the island consists of impenetrable jungle and there is a great variety of large and splendid trees. Forest products are collected for export and there has been much careless deforestation. Sugar, coffee, rice and rubber are the most important crops, and the volcanic soil of the island makes much of the land excessively rich.

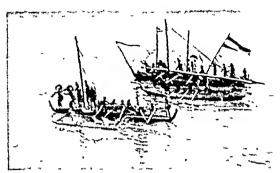
Sumatra is a great yielder of petroleum and it also contains valuable coal deposits. Gold, tin, copper and iron ore exist, and arsenic, saltpetre and sulplur are to be found in the volcanic districts.

The native population, practically all of which lives on the land, is divided into various tribes of Malay stock. Of these, the most important are the Achinese of North Sumatra, whom the Dutch have never really succeeded in subduing. They are a brave and violent people and contain in their blood a touch of the Arab. Other distinct tribes are the Bataks, Korinchis, Siaks, Jambis, etc., and there are also two very strange tribes of pure savages, the Orang-Ulu and the Orang-Lubu, who live in the depths of the forests and of whom very little is known.

Wonderful Fauna of the Jungle

Sumatra is rich in mammals. The elephant, the rhinoceros, the orang utan, found nowhere else save in Borneo, the tiger, the Malay bear, the wild dog and various deer—all these roam in the forests of this island-continent. There are hundreds of different species of birds, and the insects are so numerous that many of them have never been classified at all.

Sumatra, as we have seen, contains a good many hundreds of miles of railway, though these are a mere nothing in relation to the size of the island. There are three distinct lines of railway, and in the west coast there are some good roads. But for the most part the island, as has been stated, is still virgin forest and inaccessible mountain, and has never been properly explored. Palembang, with a population of 53,000,



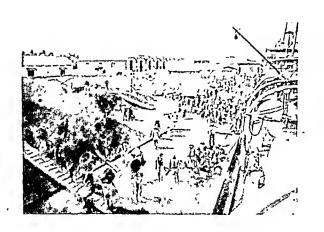
ON THE SEAS OF THE LESSER SUNDAS OFF THE TIMOR LAUT. THE TIME Part about a margine fire observer from 1 mentions for the thing that is the critical the Mally of this first on the second a state five from 5 margine for the head of the critical form of the first of the critical form of the first of the critical form of the first o



Apart from I ombok, Ball is the only idea i of the Malay Archiedren in which the Hindu religion prevails, and its templets—monuments to the rare artistic civilization of the cld Hindu builders—are its chief wonder. Above its seen a postton of the magnificently carved Hindu temple which is pituated about 12 miles from Hulcheng, Ball's chief town and a port on the north coast.



The northermost of the islands lying off the west coasts of Gilolo or Halmahera, in the Moluccas or Spice Islands, is known as Ternate island and has an area of about 25 square miles. It is of voleanie origin and consists almost entirely of a conical, constantly active volcanic peak, 6,000 feet above sca-level, with four smaller peaks. The island contains a rich growth of vegetation with many dense forests, and the flat, cleared tracts of land between the lava ribs are chiefly utilised for the cultivation of rice and maize. Several other crops are produced successfully, the chief being sago, coffee, pepper, nutmegs and cloves SPICE ISLANDS THE DUTCH THE ANCIENT SULTANATE, VIEW ON TERNATE ISLAND, SEAT



geographical divisions. In the western division the highlands lie packed together to the south, and the lowlands form one vast tract to the north. In the middle division, which is the smallest of the three, the mountains are neither so massed in the south nor the plains so continuous in the north. In the eastern division, highlands and lowlands are mixed together, save along the south coast where a range of hills forms a long watershed.

Five Days of Rain a Week

The island is, perhaps, the most volcanic region in the world. There are about 125 volcanic centres and over 45 volcanoes, 20 of which are active.

The climate is very hot and steamy, but though unhealthy on the coast is wonderfully healthy among the lower hills. The mean annual temperature at Batavia is 70° F., and the warmer months are between May and October, though it cannot be said that there is any great variation. Thunderstorms and torrential rains are frequent, and visitors make a great mistake in going to Java from December to March, as this is the wettest season. The south coast has a heavier rainfall than the north, but even in August, the driest month, there are from three to five days of rain a week.

Land of Perennial Summer

From the point of view of vegetation, Java is a place of everlasting summer. The flora of the island is astonishing in its richness and variety, and various distinct zones are encountered between sea-level and the high mountains. There are from three to four hundred species of timber trees, but teak is the most important of these and occupies about the government forest one-third of Although Java is cultivated, it still contains great tracts of primeval forest, and although it is densely populated, there are yet many untrodden wildernesses.

Animals abound in great numbers, from the rhinoceros, tiger, wild pig, wild cattle, leopard, down to the smaller

species. There are immense quantities of beautiful birds—410 species have been classified—and hundreds of varieties of fish. As to pests, all the crops are liable to them and many are still unidentified. With regard to domestic animals, buffaloes, cattle and horses are all used. Sugar is the principal crop, and there are experimental stations in the island in which efforts are made to overcome the many diseases to which it is subject.

So far as is known, Java is not rich in metallic ores. There is a small amount of coal, but petroleum is an important industry. Volcanic rock covers about 28 per cent. of the island, and it is the volcanic soil which gives to Java its peculiar suitability for agriculture. Indeed, it is said to be, from this point of view, the richest island in the world. Most of the land is nominally in the liands of the government, but Europeans and Chinese own estates in the west, and the Javanese have had about 9,625,000 acres assigned to their exclusive use.

Many Native Industries

Many of the sugar mills are equipped with up-to-date machinery, and the whole industry is in an efficient and flourishing condition. Javanese make excellent mechanics, goldsmiths. cutlers, carpenters, etc., and they also indulge in spinning, weaving and dyeing. Boatbuilding is a great native industry along the north coast.

The inhabitants of Java, of whom only about one in thirty live in towns, belong to the great Malay group. The majority of them naturally are Javánese proper, but there are also many Sundanese and Madurese. Coffee-coloured and of rather small stature, the Javanese are noticeable for their amiability, for their extravagance, for their love of acting and gambling. They are decidedly intelligent, but the ambition of the majority does not soar beyond a small government post.

There are several large towns in Java, of which Batavia, Surabaya, Surakarta and Semarang all have populations of



1,000,000 inhabitants, and are remarkable for the fact that Hinduism is still the creed of the natives. Lombok is the most westerly, from one point of view, of the Australian islands, for in its cockatoos and mound-builders it contains two typical groups of Australian birds. The natives of Bali, who resemble the Javanese, save that they are bigger and more powerful, are good agriculturalists and artisans. The natives of Lombok, who are partly Sasaks and partly Bali immigrants, are constantly fighting among themselves.

Pastoral Isle of Madura

Separated by a shallow strait from Java is the island of Madura, with a population of 1,652,000. With the exception of about 5,000 Chinese and Europeans, these are all Madurese, a race closely allied to the Javanese. The soil is pastoral rather than agricultural, and cattle raising and fishing are the chief sources of livelihood. The island is covered with hills and, with its fringe of tropical vegetation is of an attractive and mysterious aspect.

Off the eastern point of Java lie great numbers of islands stretching out in a line as far as Timor, but of these it is only possible to mention some of the larger. Flores, a considerable island 224 miles long, 5,850 square miles in extent, is volcanic, wooded and little explored. It has an estimated population of 250,000. Along the coasts the inhabitants are of Malay stock and occupy themselves in fishing, agriculture—rice, sandal-wood and cinnamon are exported—and ship-building. In the interior are savages of Papuan origin.

Dark, Unknown Celebes

But Flores, like so many of its neighbouring islands, has a strange fascination in that it is scarcely known at all. Farther east lies Timor, the largest of the lesser Sunda Islands, with an area of 12,500 square miles and a population of perhaps half a million. It is an extraordinarily mountainous island with peaks rising to 12,000 feet,

and iron, copper, gold, coal and petroleum have been found.

To the north of these islands lies the great star-fish shaped island of Celebes. Its area is about 69,000 square miles and its population about 1,250,000. Few islands in the world are less known than the interior of Celebes. Its vast unbroken forests are traversed nothing more than vague paths, and its intractable jungles are practically impassable. Sandal-wood, ebony and teak are found in its forests, and on the coast the usual tropical crops, such as rice, coffee and coconuts, are cultivated.

Its fauna is, to a considerable extent, peculiar to the island. Wild buffaloes are fairly common and there are no large beasts of prey, but it has ninety species of birds unknown to any other country, and this is also true of endless butterflies and insects.

Inhabitants who Run Amok

All its native population is of Malayan stock, and some of the tribes are skilful in the weaving of cotton. The Bugis on the east coast are the outstanding tribe, and of all the Malays they are probably the ones most given to running amok. Their fame as seamen has spread over the archipelago and their religion is a curious mixture of Mahomedanism overlaid with Hindu myths. The principal town in Celebes is Macassar which, though it has a population of only 20,000 people, is nevertheless a city of eminent importance in the early history of the islands and, indeed, of European settlement in the whole East.

Of all the islands in the archipelago, Celebes is, in some respects, the most curious and most romantic. Few white men have yet explored far into its depths and it remains wrapt in the mists of the unknown.

The Moluccas consist of all those islands which lie between Celebes on the west, New Guinea on the east, Timor on the south and the Pacific Ocean on the north. They have been divided up into seven groups, but it is unnecessary for us here to go into any



PASSAR AT PALEMBANG CHIEF COMMERCIAL CENTRE OF SUMATRA
The passar or narket is held on spec al days in the towns of Sumatra. It is an event of no
title import act to the nat ex- who come from long of stanes to take part in the barter. Pulem
bang I es in the south east of the island on the river of the stane name which is also called the
Mus 54 m les from the coast and trades principally in college and pepper

close detail concerning them Only the most prominent islands can achieve mention Off the north east of Celebes hes the island of Gilolo or Halmahera which in shape is a small replica of the larger island It has an area of about 6 700 square miles and a population of about 100 000 most of whom are Malays but some of whom are of a Papuan type Rice and coconuts are grown by the natives and trepang and pearl shells are dived for but the sago tree is still the product of most import ance on the island

To the south of Celebes lies Ceram with an area and a population very

similar to that of Gilolo The interior of Ceram is wild and little known and i mhabited by savage head hunters of Papurn stock Between Celebes and Ceram hes Burn an island of 3 400 square miles in extent and overrub y forest. Its population is estimated at 15 000 most of whom are pagans little in touch with civilization.

To the north of Buru hes Bachan an uregular island of two mountainous portions joined by an isthmus and of about 900 square miles in extent. This strange island is peculiarly rich in birds and insects and little is known about its centre which is quite uninhabited.

Coal and certain other minerals have been discovered on it. The small island of Ternate, on which is the capital of the Moluccas proper, is a very curious place, as it consists almost entirely of one volcano, which has frequent eruptions; but the harbour is a good one, and the Dutch resident lives in the little town of some 3,000 people.

Amboyna, south of Ceram, is only 386 square miles in size, but it is of importance agriculturally and produces many varieties of crops, of which cloves are the most valuable. Amboyna wood, which derives its name from the island. is mainly obtained here and in the forests of Ceram. On this small island there is a population of about 39,000, and the chief town is unexpectedly clean and well-planned. Farther south still lie the islands known as Timor Laut, with a total area of about 2,100 square miles and a total population of about 19,000. These are in the main coralline islands and their inhabitants are mostly pagan and piratical.

It is impossible to give anything but an outline of the Malay Archipelago. In richness of vegetation, in diversity of feature, in brooding immensity of tropical verdure, in brilliance of colour and in sombre gloom of forest, the archipelago remains, as a whole, one of the great strongholds of wild nature.

for Java and patches here and there on the other islands, the whole area has been but little exploited, and is still much what it was untold centuries ago. Malay, Arab, Chinese and European civilizations have but scratched its edge. and in the deep recesses and the unknown interiors paganism is still rife and primeval nature still triumphant.

The mountainous form of most of the islands, the treacherous climate. the uncertain natives, the riotous tangle of the jungle and the lack of adequate population make the task of developing the islands arduous and slow. The policy of the Dutch is not to liasten Now that they have so wonderfully opened up Java they are turning their attention more and more to Sumatra; and gradually, it may be presumed, all the other islands, so far as is suitable, will come under their close survey. But for many years yet most of the archipelago will remain an impenetrable wilderness, and that is what gives it, to an imaginative traveller or reader, so strong an appeal.

The beauty of these islands cannot be over-estimated, but even beyond their beauty there rests upon them the enigma of untold secrets and hidden mystery. They remain, as they have remained for ages, almost unaffected by the advance of man.

MALAY ARCHIPELAGO: GEOGRAPHICAL SUMMARY

Natural Division. A festoon of islands from Sumatra to Timor, the upper portions of a range of fold mountains connected through the Andamans and Nicobars with the fold mountains of East Burma and the Himalayas. Highly volcanic (cf. Japan) and mainly mountainous, with lowlands only in Sumatra and Java connected with the shallow sea between them and Borneo.

Climate and Vegetation. Tropical heavy rains, tropical temperatures, with slight variations. Tropical jungle forests. (Cf.

the Amazon and Congo Basins.)

Products. Teak, spices, e.g., nutnegs, almost all the world's supply from Banda, cinnamon, pepper (the Moluccas or Spice Is.). Sago, macassar oil, sandalwood. In Java the Dutch have provided an object lesson to the world in the management of tropical plantations which yield

rubber, coffee, cane sugar, rice, tobacco, tea, cinchona and copra; this centralised horticulture is being extended into

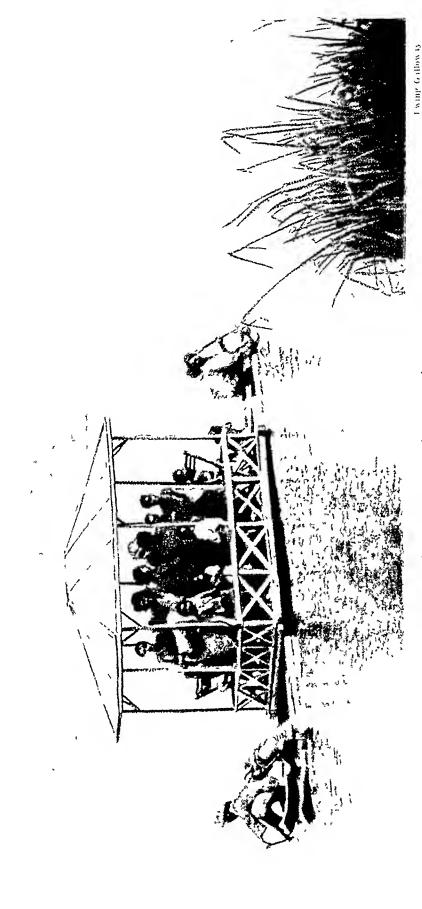
Sumatra. Tin, petroleum, coal, and, possibly, other minerals.

Outlook. There is a striking contrast between the highly developed "plantation" section of Java, the tin-fields of Banca, and the comparatively unknown, untrodden and unexploited areas elseuntrodden and unexploited areas elsewhere. For the world, a fraction of Java makes up most of the archipelago, and here the outlook promises continuous, steady progress to provide materials for the colonial trade of Holland. Most of the rest of the archipelago matters little, Its merest fringe is of immediate utility, but its luminout fortility required a vector its luxuriant fertility promises a vast return when man finds the need to extend to it the same Dutch methods of cultivation; its natural resources are without bounds



MALAN ARCHIPLLAGO Here is one of the cartiest implements used by man In Java they paint and care their ploughs life toys

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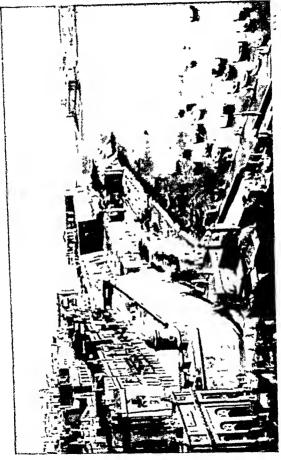
May A Normon vio. This curious out then one sees upon the beautiful takes in Java is a double canoe with a control platform. The weight and unweighness make progress exceedingly slow

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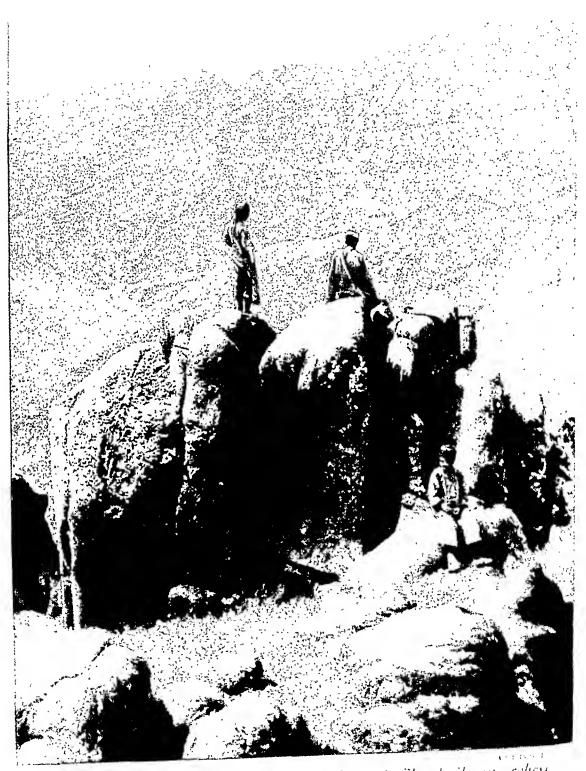
Mary Armin



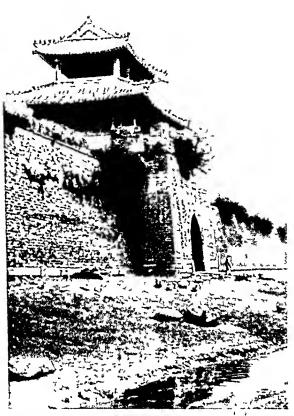
Maken. Milk is delivered on the hoof in Malta by herds of goats, such as that shown here outside the sachuded character of Addolorata Pirth in the village of Birzebbugia on the Marsa Scirocco



On the left beyont the Interest has an the self in



Manchuria. These mountains are beyond Shanhaikuun, rehrithe Great Wall began, on the frontier between China and Manchuria



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MALTA

The Middle Island of the Middle Sea

by Gordon Home

Author of "Along the Riviers of I rance and Italy "

A LMOST exactly in the centre of the Mediterrane nandin the fairway between the extern and western extremities of that historic inland sea, the Maltese group of islands is placed in a position of exceptional importance. It required another factor, however, to give Malta the place in history which it acquired in very early times.

This was provided in the mignificent intural hirbours of Valletti where, age after age, those who have sailed upon the uncertain waters of the Great Sea have found shelter. Rob Milta of its hirbours and in a few yearstheishindwould be almost depopulated, for the great? part of its his is bred upon the faeilities.

it affords to maxigation

Before man determined to live on the island it must have presented an appearance of absolute sterility everyt in the valleys where certain evergreen oaks and other hardy trees found root and shelter against the fierce blasts of the "gregale", and even to day, viewed from the sea, the islands present a most forbidding aspect. In spite of this of the smaller islands of the world Malta is the most populous, the most productive, the most interesting and architecturally the most important and preturesque.

Isle Without Lake or Stream

Its length is a little over 17 miles, its breadth is from seven to eight miles, and the total area about 91 square miles. By adding Gozo and the little intervening rock of Comino, the whole surface of the group reaches 118 square miles

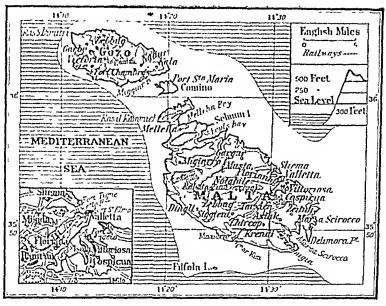
Throughout the island there is neither lake nor stream, and unless one counts the shallow rock strewn ravines which carry off the violent winter rains, there

is no relief to the and character of the mass of porous rock except for a few very carefully protected gardens and the cultivation in the valled in fields

On the south western side of the shind the coast consists mainly of perpendicular chiffs with steep slopes above, rising to 845 feet—the greatest exaction Malta possesses. The northersterly shores are comparatively low between the deep inlet of St. Pauls Bay and Valletta, and also at the southersteen extremity on citier side of the broad sheltered bay of Marsa Scirocco Roughly, the surface of the island may be regarded as an inclined plain tilted to the south west, and broken up with a number of shallow gorges worn in the coralline limestone.

Watts to keep Out the Wind

The soil is exceedingly thin and would be hable to be quite washed away were not a most thorough system of terracing established wherever cultivation is carried on Viewed from an aeroplane the island appears, during the spring and summer, to be an elaborate mosaic of green, but from the ground the very small fields-nurrow strips and oddlyshaped patches-are hidden behind the stone walls built on all sides to protect the crops from the winter winds destructive blast, called the "gregale," blows from the north east some six or eight times between December and March, and would make agriculture difficult were it not for the protection given by walls of limestone built throughout the island to hold up the soil From the point of view of picturesqueness, the necessity of these walls is deplorable. On either side of the very white roads appears nothing besides



MALTA AND GOZO WITH VALLETTA PORT

stone walls in long, irregular lines punctuated by scattered bushes or stunted trees and small stone structures answering the purpose of barns.

Frost is not experienced in Malta, and the summer temperatures mount up rather high, that is between 99° F. and 103° in the four months of summer (June to September). In August and September, when the wind comes from the south-east, it brings to the island the almost suffocating heat of the Sahara, laden with moisture drawn up in passing over some 250 miles of sea. For three or four days at a time the islanders have to endure this form of ordeal, when life in the narrow streets of Valletta becomes a question of endurance, and the reason for the innumerable oriel windows becomes easily understood. In the ordinary heat of summer the temperature is increased by radiation from the bare limestone surfaces.

Winter and spring are both temperate and healthy, March, April and May being generally sunny and pleasantly warm with very little rain after March. The rainfall during the autumn and winter can reach high figures, 7\frac{3}{4} inches having fallen in a single December day. On the whole the changes of weather throughout the year are broadly similar to those of the south of France with extreme conditions brought about by the

north-east blasts of winter and the baking southeast winds of summer.

The British garrison lives quite healthily in Malta now that the cause of Malta fever has been traced to goat's milk and its consumptionforbidden. Despite the fact that the Maltese are subject to the disease, they still consume goat's milk much as they did before the discovery was made. There is, too, a strongly rooted prejudice against having the goats milked where they are pastured; the people

of Valletta insist that the evil-smelling little quadrupeds shall be milked at everybody's individual door. In this way, the otherwise very clean stone paving and great flights of steps throughout the port are daily and quite unnecessarily polluted.

There are over 43,000 goats in the island and about 28,000 sheep, and when to these are added about 9,000 horned cattle and some 16,000 horses, mules and asses, the stranger wonders how pasture and forage can be found for such herds. The modern Maltese terrier, once common, is now rarer and tends to become larger, while the ancient toy terrier, the "canis meliteus" of Linnaeus, died out in the eighteenth century. Pigs and poultry are bred in numbers for local consumption.

Except in the shallow ravines or where rock surfaces make cultivation a sheer impossibility, Malta is entirely given up to cultivation in the handicapped manner already mentioned. onions, potatoes, Wheat. barley, tomatoes, grapes and various forages, including sulla and different kinds of Such vetch, are grown extensively. large quantities of potatoes are produced that the surplus is exported. Perhaps one of the most surprising features of the island's productive capacity is the cultivation of cotton, which has been

going on for thirty centuries; the yarn is manufactured into cloth in the reland. In 1923 about 43,000 acres of land were under cultivation, and of them between Soo and one were devoted to cotton.

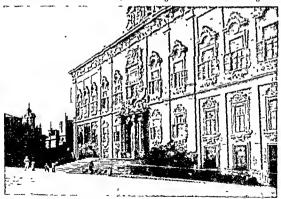
Whatever was the early state of Malta and Gozo in regard to the growth of trees, and whatever may be the possibilities in the future, the islands are exceedingly bare and only in such highly developed gardens as that of San Antonio is it possible to find large trees of full growth. As a rule, trees are conspicuous by their absence, or, where they are found uncared for in exposed positions, are small and stunted The evergreen oak, cypress, olive, ghar-ghar (producing citron wood) and palm are to be found in various parts of the island The Norfelk Island nine grows so well that the whole aspect of the landscapes might be improved were planting carried out systematically

Roses and carnations have been cultivated in Malta from very early times and the "Rose of Malta," a

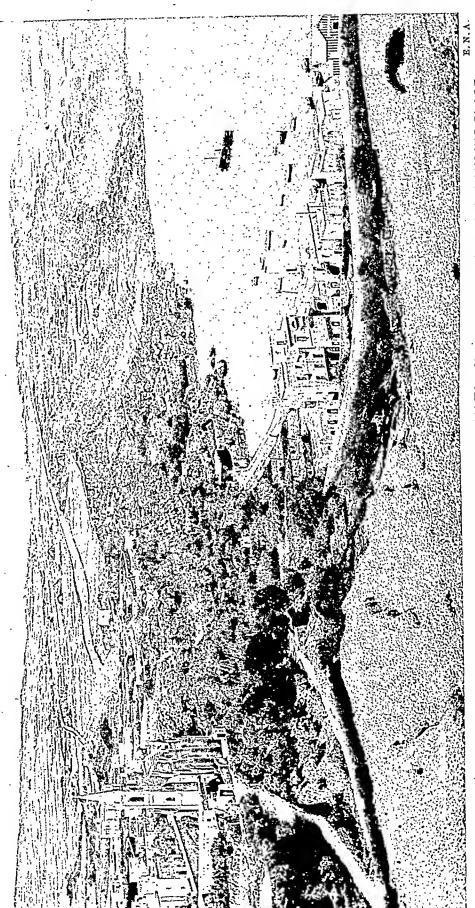
variety of the Provence Rose, used to be grown for extracting its perfume. It is one of the most scented of all roses.

If it were at one time a difficult matter to decide whether the Maltese Islands belong, from a political and ethnological standpoint, to Europe or to Africa, it was no more easy to give this waif any recognizable geological By act of the British parentage Parliament, Malta being part of the Empire, the group was declared to be in Lurope, and it was found that while an elevation of only 50 fathoms would unite the islands with Sicily, which is 60 miles to the north, it would require an elevation of some 200 fathonis to ioin them to Africa

Sir John Murray, of the "Chal lenger" expedition, was of opmion that the Globigerina and the upper coraline limestone, of which the islands are to a very great extent built up, at one time formed part of a land surface connecting Europe and Asia, and that through subsidence and other agencies



HISTORIC HOME OF THE ARMY HEADQUARTERS AT VALLETTA
The Knights of the Order of S John of Jerusalem ruled Malt's from 1330-1798, and many of the
buildings erected by them are still strading. The hand one Aubrege of Castile, the finest of
the great "auberges," or houses of assembly, of these Knights of Malta, stands in the Pazera
Regna Built in 1574, it was altered in 2744, and is now utilised as the army headquarter



he landing-place is Miggiar, on the south-east coast below Fort Chambray, while four miles to the north-west in the centre of the island Gozo is considered to be more fertile than the main island; of coralline limestone formation its surface is varied and the well-cultivated terraced gardens and fields, encircled by high walls, produce an abundance of fruit and vegetables The island of Gozo, in the Maltese group, is situated four miles to the north-west of Malta and measures about eight miles in length and four in breadth with an area ITS LANDING-PLACE SISTER ISLAND OF MALTA. SHOWING MIGGIAR G020 P. SURVEY PANORAMIC

only the fragments formune it e Waltesgroup have been left. Before this hill area was all merged the exstern half of the Molliterragian was a vast fresh water lake and in the many caves in Malta have been found tennans of elepharts, grants as well as primy (4) or 1/2 for 1/1 b) the shalk of the Maximo period. Dipops, aim and have above Is In Point in the Grand Hubour the largest ships of the British Navy are dosked for repur and refitting. This work on the different units of the Mediterranean Theel keeps a large number of men emplayed all the year rein! Large stocks of coal are kept at Mars), the uniter end of the Grand Hubour and the Maltese pride them.



MUSTA CHURCH WITH ITS STUPENDOUS SOARING DOME.

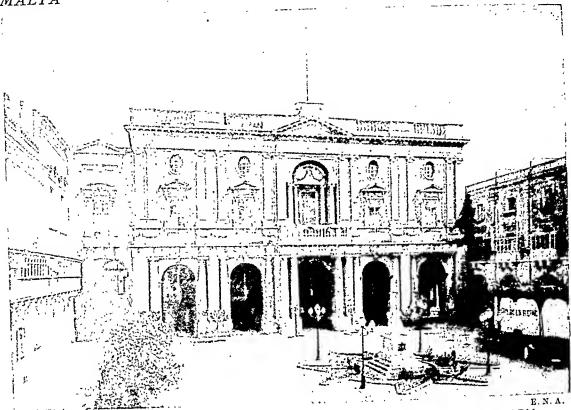
It is not east east of Males one obtailed with each of the best of the order of the control o

tortoises. Apart from building stone the rands possess no innerals

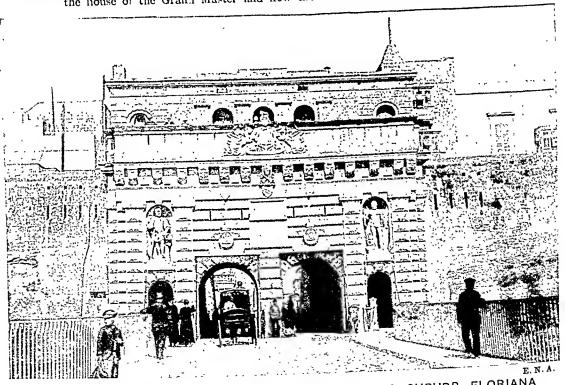
While the working of the 11 000 agricultural heldings in Valta forms its chief industry the strain, or might think that the mean source of employment was the repairing and coaling of ships for Villetta harbour is one of the most important ports of call in the world and the Maltes having shown them where to be exceedingly efficient in enjineering work of all sorts have diveloped their opportunity to such in extent that no repurs to ships are known their capacities.

solves on the rapidity with which they can fell the bunkers of ships

The fishing industry of Wiltz is not organized although about a thousand boats and between three and four thousand persons are employed the citch of the whole fleet weighing over 1200 tons per annum. Owing to the lack of coordinated effort, the work of this large number of people does not entirely meet the requirements of the islands importation having to be made from Sietly. Tunny is fished at both ends of Wilta and specimens over 12 fect in length are sometimes caught.



HANDSOME ARCADED ENTRANCE TO VALLETTA'S PUBLIC LIBRARY
In the Pazza Tesoreria, the heart of the old town of Valletta, stands the finely-proportioned Public Library be ore the façade of which rises a marble statue of Queen Victoria. On the left of the photoLibrary be ore the façade of which rises a marble statue of Queen Victoria. On the left of the photograph is seen a corner portion of the palace, a low building of unostentatious appearance, formerly graph is seen a corner portion of the gran: Master and now the seat of the governor of Malta



MASSIVE GATEWAY BETWEEN VALLETTA AND ITS SUBURB FLORIANA Porta Reale rises at the end of the Strada Reale, one of Valletta's main thoroughfares, beyond it lies the suburb of Floriana. In the niche on the left of the gateway is seen the statue of the man after whom the town was named, Jean Parisot de la Valette, Grand Master of the Knights of S. John of Jerusalem, who defended Malta against the Turks in 1565

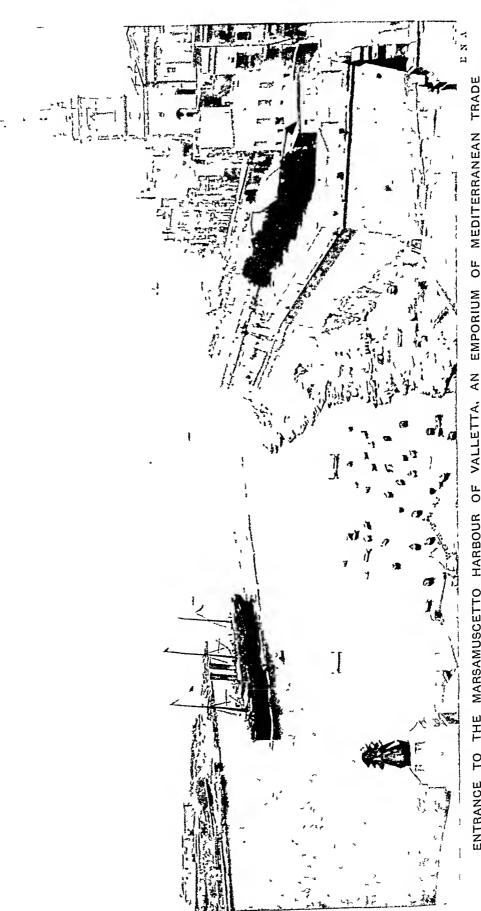


COCKE HOUSE OF VALCETA STANDING IN THE STRADA REALE the effect of the control of



In BESIDE THE SAKKAJA FOUNTAIN IN MALTA'S FORMER CAPITAL.

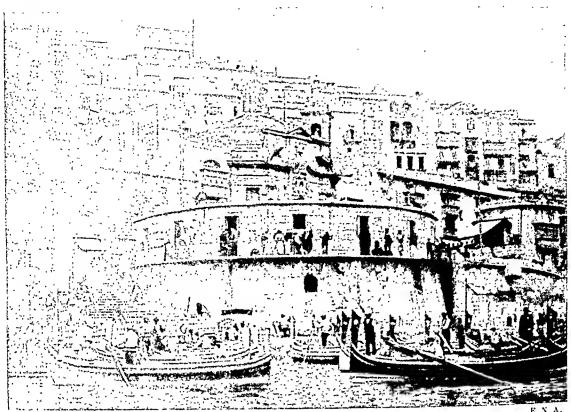
In the center of the Line Hes Note the or CHIA Verills, the arctine capital of Malta and a fortiful term in the days of the Homan made. A very attractive part of the term is this, where the Niskala fountain and the Evil de Nor-Hord, the latter certaining a lively slew of the environ, standout and the Evil de Chia (the leafing down in the Northern and the Office).



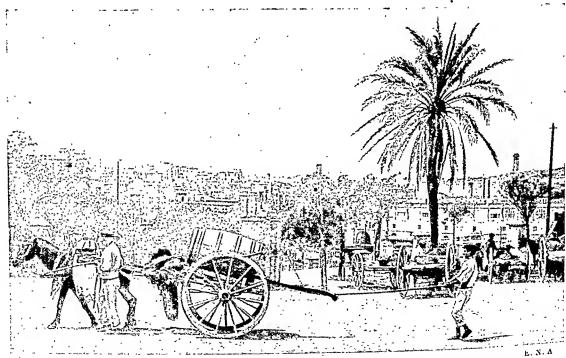
Valletta, the capital of Malta, is situated on the north-east coast of the island at the extremity of a promontory formerly known as Monte Sceberris, which is more than a mile in length and about half a mile in breadth and lies between two grand natural harbours, with magnificent docks which place it in the foremost ranks of the ports of call on the Suez route to the East. The Marsamus etto Harbour bounds the promontory on its north-western side, and is guarded by three forts, one of which is seen on the left, while on the right are Valletta's old town walls and white-gleaming bastions TO THE ENTRANCE

669

St. Danis Bay is a deep med in the north could of Mila paraly et nome to the cold with a list of the first about the feet on has been in the deep med by a state of the cold and the feet of the feet



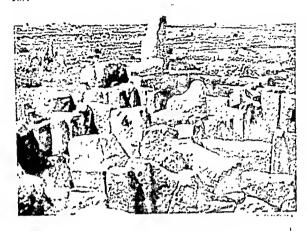
FISH MARKET IN PROGRESS BENEATH THE HIGH WALLS OF VALLETTA. For their skill and enterprise as mariners, merchants and fishermen the Maltese are famed throughout the Mediterranean waters. Nearly 1,000 boats are employed in the fisheries, and very animated is the scene when, laden with their spoil, they assemble round the base of the long flights of steps which ascend steeply from the harbours, for fish is a popular diet among the islanders

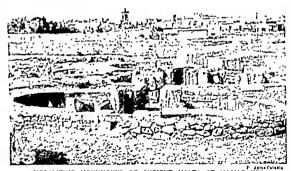


MALTESE METHODS OF SPRAYING THE DUSTY STREETS OF VALLETTA

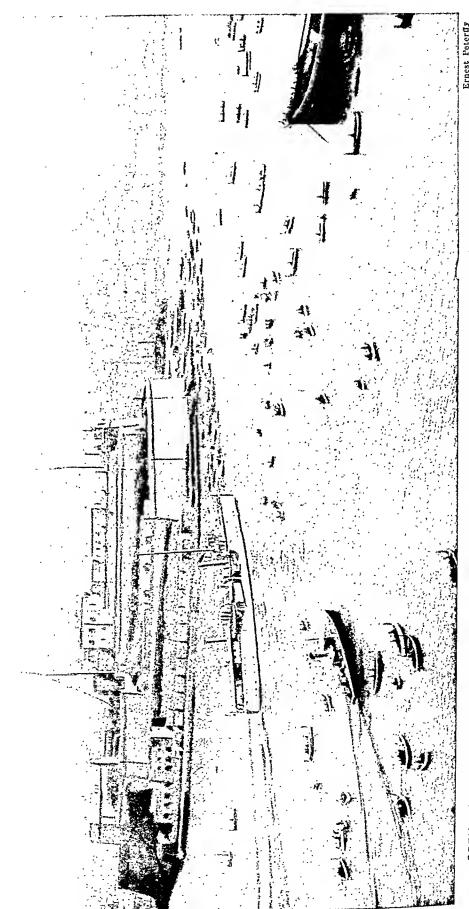
The local water-cart, with its flexible pipe which, waved from side to side, disperses the water in
fine particles about the dusty hot roads, is a familiar object in the streets of Valletta. The water
supply of the town is a good one and widely distributed; on the land artificial irrigation is essential and
on well irrigated land several crops may be raised in the year

MALTA





MEGALITHIC MONUMENTS OF ANCIENT MALTA AT HAGIAR Kim Long lef se the Phoenicians came to colonies Balta, about the sixteenth century a c, the Island bit levn in the bin is of a prelinteric people, tracer of whose chillration are still found in various stops structures in the cyclopen 1316. Among these measurements are the prebisted rulas of Hagiar Hamiltonian and the problem of the subtle bound of Malta constructed of himse blocks of stone utilized morta mortar construction.



Because of its strong fortifications and central position, Valletta, with its fine dockyard and arsenal, is the chief British naval and coaling station in the Mediterranean Sea, and both the Grand Harbour and the Marsamuscetto Harbour constitute an important British naval base and the headquarters of the British Mediterranean Fleet. The fortifications of Valletta are very interesting; the oldest portion of them is Fort St. Angelo, originally constructed in the ninth century by the Moors. which lies opposite the city on a creek of the Grand Harbour, whose waters are studded with the gondola-like type of Maltese craft, so striking a feature at Valletta ST. ANGELO, HARBOUR, SHOWING FORT

The Impuer, a migratury fish which comes to the islands in autumn is exaught in considerable quantities and is extendy all classes of the people. Beside, these there are turbot and sole, garfish, muraent, red mullet, have, send dory, sword fish, and the dentex and barracula pike, both of which grow to lour or five feet in length.

A railway unites Valletta with Notabile (Città Vecchia), the old capital of Malta, a distance of 71 miles with generally kept in very fair condition Goro's roads all come under the heading of third class, but are adequate for the agricultural needs of the island. A duly steamer carries the mults to and from Gozo, and in addition communication between the islands is supplemented by large lateen rigged sating hoats, a picture-que feature of the Grand Harbour.

Apart from large quantities of building stone. Walta's exports consist of little



LONG ROWS OF THE OLD UNDERGROUND GRANARIES AT FLORIANA
Thertans the suburb of Villetts occupies the lower half of the promotines, within the many most not full fines have arrisen in this quarter which is accessed by his lan haud fertifications and an outer line of defensive morks several interesting old features exist, and this view shows the executed granaries where he former times the grant for consumption to the populace was garnered.

three stations between the termini addition some 14 inites of trainways were laid in 1907, the chief his running roughly parallel with the railway and about a mile and a half to the south and extending as far as the village of Zebbug Another line also starting from I lore in a. the western suburb of Valletta, encurcles the inner end of the Grand Harbour third feature of the communications of the island is the electric passenger lift to the Upper Barracca Gardens, 220 lect above the Marina at the finest point in the Grand Harbour. It is one of the highest elevators in Europe, and is a time-saver of great importance to the people of the island

A network of good roads covers Malta, and the minor ways, if narrow are

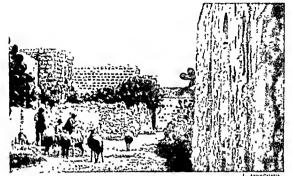
besides two or three thousand tons of early potatoes and small quantities in tomatoes, onions, preserved cummin, cotton and eighrettes. There has been, however, some considerable export of the fine breed of mule getting donkeys for which the island is famous.

As a town Valletta is unique. It stands on a wall sided tongue of rock, the sloping surface of which is about 200 lect above eer-level, with the Grand Harbour to the south and that of Marsamuscetto to the north Local stone is everywhere employed, and almost the whole of Valletta itself consists of regularly planned streets of houses and palaces, nearly all of them built in the latter part of the sixteenth or early seventeenth century. In spite



AFAT TAIR CAPITAL

2675 MALTA



AMONG THE STONE WALLS OF THE MALTESE COUNTRYSIDE that they are relief pursuit of the Valtes evan ters a screening but to early to careful tilling and irrigation that they can rely on the arafle fain to produce humanic crops. Horse, mules sheep assess and grain are rearrel, the last named bardy and thriving on a misedianeous dect are kept this ly as a source of darry toduce being of priviletal value as mish producers.

of this uniformity the town is full of picturesqueness for at many points there are broad flights of steps going down steeply to the hirbours while the ficades of churches and the pafaces or auberges of the Knights in Malta are conspicuous features forming benuful and often very impressive foregrounds to the scenes. The streets would be spotless were it not for the goals.

In addition to the subirth of Floriana of the state of rock projecting laterally into the Grand Harbour. They repeat to some extent the features of Valletta, but are not built on such fine lines. The earliest portion of the town is Vittoriosa, which was the first home of the Kinglits of Malta when they came from Rhodes.

On the northern shores of Marsamuscetto Harbour is Shema the morenewlybuilt and open part of Valletta, where the officers of the British garrison find more any quarters than in the narrow streets of tall houses in Valletta proper

Notabile the only other town of any consequence is the old capital of Malta. It is a sleepy little place in an elevated

situation on the higher side of the island and commands extensive views over land and sea It is built of the creams-coloured limestone employed everywhere in the group and is almost united to Rabato, a place of roughly sımılar sıze Even the villages of which there are a score or more, con sist exclusively of stone built houses and generally have an appearance of tidiness and regularity without any squalid features The flat roofs were at one time an important feature, for by means of the rain taken from them the supply of drinking water of the inhabitants was maintained Since the building of the aqueduct by Grand Master Wignacourt in the seventeenth century drinking water has been brought to Valletta from springs

The Maltese are a remarkable people, and scientific study in recent years his come to the conclusion that they are an exceedingly pure and unmixed race Although they speak a drilect of Arabic there seems no reason to believe that they are of Arab origin It is quite probable that they belong to the great

Mediterranean or Eurafrican race which, long before the rise of Greece and Rome, occupied the greater part of the lands bordering on the inland sea.

The most ancient skulls found in Malta, dating probably to 3,000-4,000 B.C., are identical in characteristics with those of this primitive race discovered elsewhere; and those of the Maltese of to-day are exactly similar. In other words the same people with hardly any foreign admixture has inhabited Malta for nearly 6,000 years.

The language spoken by all is an Arab dialect which is so closely akin to that spoken along the Mediterranean shores of Africa that the Maltese finds himself quite at ease when he seeks a home on the shores of that continent. As a rule the upper classes and the people of Valletta generally speak English well, although the less-educated have some hesitation in forming a complex sentence and a good deal of accent. Italian is commonly spoken by the upper classes, and outside the towns it is not unusual to find the people unable to speak anything besides Maltese and a smattering of Italian.

The type of physiognomy usually encountered in the capital is somewhat full-faced and heavy though goodlooking. Away from Valletta in the villages of the interior of the island the most ancient strain in the population is believed to be represented by those who have thin and wiry faces with keen, mobile features and, in some instances, grey or blue eyes.

remains in the megalithic The southern end of Malta and in Gozo are of great importance. They consist of elaborately constructed temples put up in the later Stone Age or neolithic Hagiar Kim and Mnaidra above the inaccessible cliffs south-west of Valletta are still amazingly complete and picturesque, while Gigantia, in Gozo, is a temple on a still larger scale. At Hal Saflieni there is a very remarkable series of underground chambersa hypogeum whose walls and roofs are in part covered with a flowing design in a red pigment.

It is the industry and activity of the Maltese which has made the islands prosperous and enables them to support such a large population. By their skill and energy in agriculture they produce four crops annually from the very thin They live as a rule in the most frugal manner, their diet consisting mainly of bread and vegetables. As handicraftsmen the Maltese rank high, and in the sixteenth century it was their skill in ship-building and rigging which contributed not a little to the success of the Knights of S. John against the onslaughts of the Turks. In cabinetmaking, filigree work and the production of lace they show great aptitude.

It would be difficult, if not impossible, to find another hundred square miles of the earth's surface where the inhabitants have had more strenuous conditions of life than the Maltese, and where industry and skill have been so entirely successful in overcoming them.

MALTA: GEOGRAPHICAL SUMMARY

Natural Division. Insular fragment of the sunken land bridge between Italy and Africa (v. Mediterranean Sea, Sicily). Mainly limestone. (Cf. the Karst in Serbia, the Carso in Italy North.)

Climate and Vegetation. Typically Mediterranean, with droughty summers and winter rains. Winds, "gregale" and "sirocco," blow freely and cause temporary inconvenience. Very little forest or natural vegetation.

Products. Mainly horticultural. China, Japan.) Potatoes, wheat, tomatoes, grapes, roses, cotton.

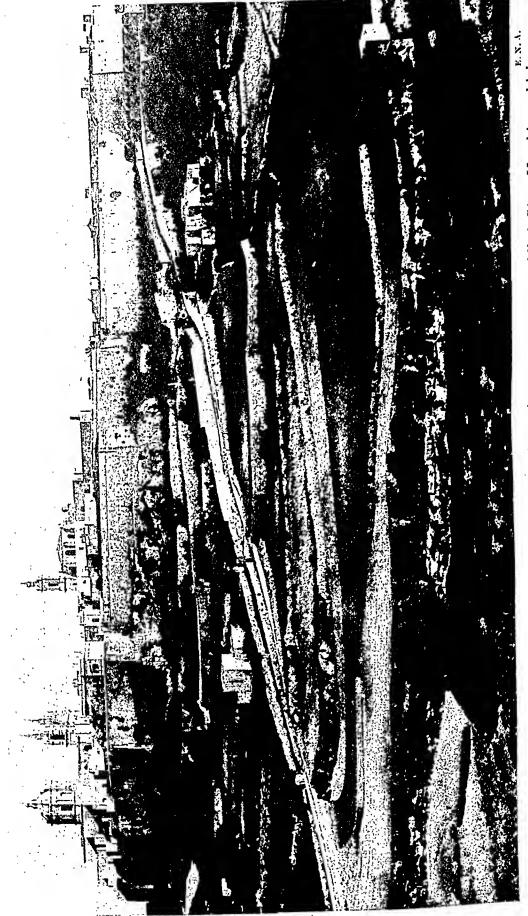
A unique nodal Communications. point, in contrast with Aden which lacks local supplies. Malta is one of the chief places in the Suez Canal route between the

Atlantic and Pacific Oceans.

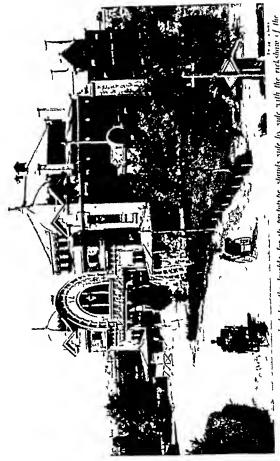
Outlook. The Maltese, within the limitations of the climate and the soil, have naturally had close contact with all seafarers whose varying fortunes have been reflected in the island; and the future holds little other than a continuance of these fundamental circumstances in the changing environment typified by the turbine steamer and the aeroplane.



MALTA. Strada Santa Lucia, climbing the steep ridge on which Valletta stands, is a series of steps through a cañon of houses 2677



MALTA. S. Paul's Cathedral dwarfs the mighty guardian cincture around middled Citta Vecchia, which now has only to withstand the gnawing assaults of weather, creeper, and clinging moss



MANCHURIA — I carriage, which has the drasthy for its pertotype stands side by side with the rickshim of Grient in the dir e of the put he highing, s. en t. D wen by the South Manchuria Radison.



MANCHURIA. This huge and weather-worn La-ma-ta, or Tower of Lama, reputed to be 2,000 years old, dominates the west of Mukden 2680



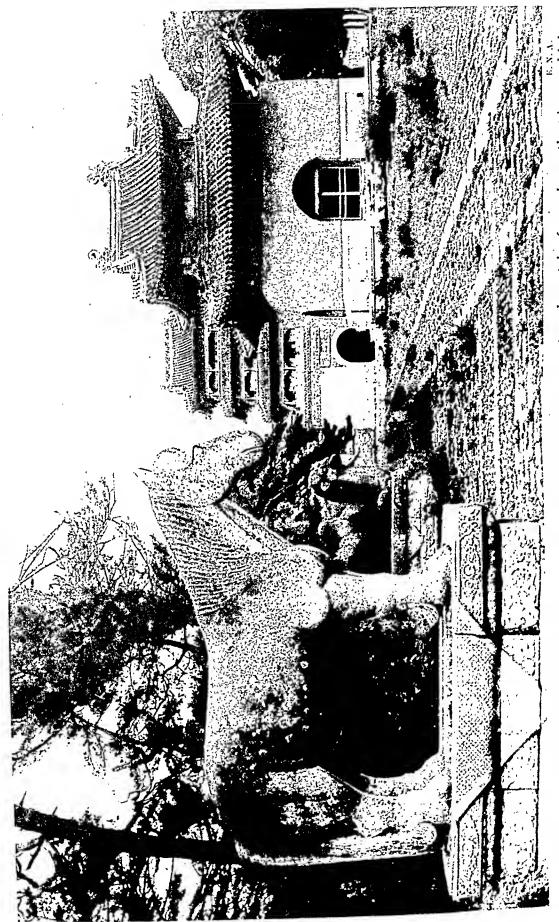
MANCHURIA. Carted images of Buddha gate over the garden from niches in the sides of the Paista or White Touer of Liao-yang 2681



Manchuria. The hub of Dairen is the circular "Great Square," planted with trees and shrubs, from which radiate the principal streets. The fine domed building is the Yokohama Specie Bank



MANCHURIA. Where for centuries the cantel and the mule tool the plants and radies, the train was runs on its iron course. The South Manchuria Rathay has viried this rast station at Micklen



MANCHURIA. Only impassive stone animals in the grass-grown courtyard watch, from beneath pines which creak in every wind, the neglected tombs of the Manchu dynasty near Mukden

MANCHURIA

Virile Land of Forest and River

by Arthur de Carle Sowerby

Author of " Fur and Feather in North China ' etc.

ANCHURIA, as it exists to day, consists of the three provinces of Shengking, Kirin and Helingking. In the old days when the Manchus rose into piner it consisted of a much wider stretch of territory and included what are now known as the Amur and Primorsk provinces of existen Siberia These provinces were taken from the Chinness Empire by Russia in 1858

Situated in the north-east of China proper, the three provinces of Chinese Manchuria he roughly in the form of a great horseshoe, Shengking being the southernmost and Heilungkiang the northernmost, with Kirin Icrming the apex in the cast. They still form part of the Chinese republic though only in name, but this state of affairs must be considered as a phase, as Manchuria, by reason of its population which now consists predominantly of Chinese immigrants from the provinces of Chili-li and Shan tung, is essentially a part of China and sooner or later must re-unite with the latter

A White Man's Country

It may be described as a " white man's country," that is to say, it is emmently suitable for the residence of Europeans and Americans, as in many ways it closely resembles Nova Scotia is a land of mighty forests and rivers. rolling, fertile plains and rugged mountains, and it is still in a comparatively early stage of development. Owing to the wonderful richness of the soil and the extent of its uninhabited areas, the country has been to China what Canada has been to England and Europe-a land of promise to settlers Chinese farmers from the provinces of Chili-li and Shan tung have, for the past balfcentury, looked to it as a land where an new start may be made and where reh, fertile land may be had for the clearing It boasts a wealth of animal and vegetable life that is unsurpassed in this part of the Astitic land-mass

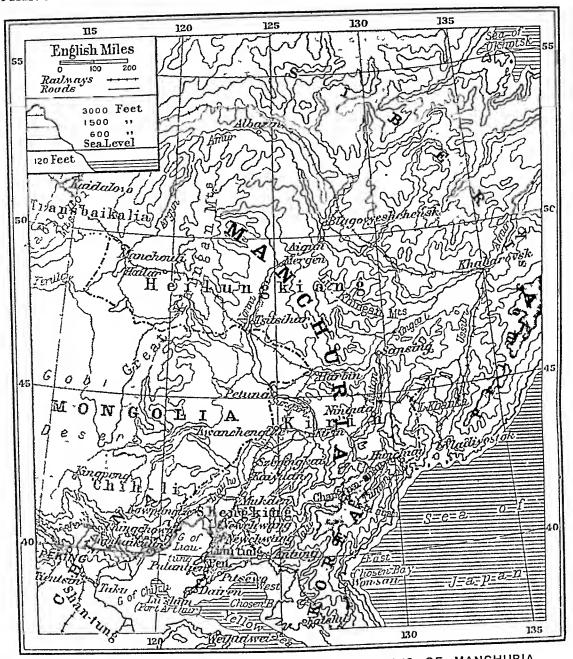
Manchuria's Three Great Provinces

Manchurra is bounded on the west by Mongolin and China proper, on the south by the Chili li Gulf, West Chosen Bay and Koren on the east by the Primorsk or Maritime province and on the north by the Amir province, or Pre-amir, and Transbrikalia. It less roughly within the parallels of latitude of 40° and 56° N and the meridians of longitude of 120° to 156° D. Its total area is about 335 foos nuare miles

The greater part of the province of Shengking consists of low lying rolling plan with fulls or low mountains along the Chinese and Mongolian berders in the extreme west and along the Kirin forder in the extreme cast. The Liauting promonitory, which lies in the extreme south, justing into the Gulf of Chih-li and dividing the Liauting Gulf from West Chosen Bay, is more or less covered by barren, rugged hills. In the west and north-west the country is inclined to be sandy, partaking of the nature of the Gobi Desert.

Kirm province is munly mountainous and hilly and a great part of it is heavily forested, though the forests are being cut away very rapidly and the whole province settled up by immigrants from China There still remain, however, enormous reserves of timber in this province, especially over the slopes of the Chang pai-shan

Heilungkiang is also hilly and mountainous, and, in places, heavily



GREAT MOUNTAIN TANGLE AND ROLLING PLAINS OF MANCHURIA

torested, though large areas are covered with low scrub. This province is not nearly so well populated as the two former, and, consequently, is less extensively cultivated.

Three extensive ranges of mountains occur in Manchuria, namely the Great Khingan mountains which lie in the extreme western part of Heilung-kiang, extending thence southward into castern Mongolia; the Little Khingan mountains which run through eastern Heilungkiang; and the Chang-paishan (Long White Mountains), which

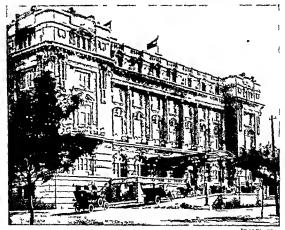
cover the greater part of southern Kirin, and whose culminating peak, the Peiktu-shan (Old White Mountain), was the sacred mountain of the Manchu dynasty. It is an extinct volcano with an altitude of some 7,000 feet and a wonderful lake in its crater.

On its slopes rise the Yalu river and the Tumen river on the south and the mighty Sungari river on the north. The Yalu river flows in a south-westerly direction and forms the boundary between southern Manchuria and Korea, emptying itself into West Cho en Bay to the north of the Yellow Sea. The Tumen flows in a north easterly direction to the Saa of Japan and divides korea from south-eastern Manchura. The Sungari flows in a general northerly direction past kirin city the capital of kirin province past Petina and the important city of Harbin and joins the great Amur river some 300 miles from its mouth.

The Sungari has two very important tributaries namely the Nonni river which drains southern Heilungkaring and the Mutan or Peony river which drains karin province having the important exty of Ninguta on its banks and joining the Sungari at Sansing. The rovince of Shenking is drained by the 1704 ince of Shenking is drained by the 1704 ince of Shenking is drained by the growing treatment and then southward emptying itself into the I au turn Gulf which is an off-shoot if the Gulf of Chih b

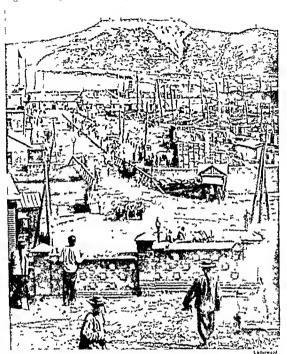
The Amur is one of the largest rivers of eastern Asia. Rising in Mongolia it flows in a general easterly direction forming the political boundary between Munchuria and the Amur province. In the extreme east forming the boundary between the Primorsk province and Kirin lies the Ussuri river which rises in Lake Khanka and flows in a northerly direction to the Amur at Kharbarovsk.

Scattered through the forest areas of southern him are numerous small criter lakes of extreme beauty that some day when the country becomes eitled must form very attractive watering places. At present however they are buried in the depths of the printeal forests and have scarcely even been at tited by white men. They are looked upon with awe by the Chinese who maintain that they are inhabited by dragon princes.



WESTERN ARCHITECTURE IN A FAR EASTERN SETTING

The southern part of the Liu tung peninsula leved to Japan is under a Japanese governor general with the cat of administration at the export to vin of Dalren known at o as Ta rend Pal en wan and Dalny The imposing but id ng seen above is Dairen's modern hotel run by the South Manchurian Railway Company and said to be one of the finest blottle in the Tar East



PORTION OF THE FAMOUS MANCHURIAN SEAPORT LEASED TO JAPAN In 1915 Japan obtained from Clint the extension of the leave of the territory in the Linu tung peninsula including it of Arthur and Dalem, to 9 years. A strongly frotified export 1 out Arthur or Ludum lying near it is so othern extremity of the peninsula possess a secure ice free Inthon and its the terminant of a transful med of the South Wanghurian Railway which is in Japanese hands

columnar basalt while the Chang pai shan mountains are largely volcting. Nevertheless the curbonilerous series is represented in many parts of Shengking province, coal being mined extensively and forming a valuable industry. Throughout the central, eastern and northern areas placer gold is abundant, but it is more or less monopolised by the government. Other metals are iron silver, copper and lead

The most important resources of Manchuria are agricultural, the soyn bean being the main stand by of the agricultural population and the chief export. From it bean cake, bean oil, soya sauce and bean curd are made, all except the curd being extensively Wheat is also extensively exported. grown as well as other cereals such as sorghum, millet and maize. Wheat flour is milled in many places. Tobacco too is very widely cultivated. In south Manchuria the wild silkworm is cultivated, the hills being largely planted with scrub oak on the leaves of which the worms feed. They produce a high grade of tussore silk, which is largely exported to Shan-tung in China, where it is manufactured.

Scourge of the "Red Boards"

The human population of Manchuria is, as already indicated, mainly Chinese, largely composed of immigrants from Shan-tung and Chih-li. It is steadily on the increase, and the Chinese are rapidly overwhelming the aboriginal population of Tungus tribes, such as the Giliaks, Goldis, Orotchis and the like. The Manchus, the former masters of Manchuria and the last rulers of China previous to the present republic, are rapidly becoming absorbed by the Chinese, whose speech they are adopting, together with their customs and culture.

Besides the Chinese, Manchus and other Tungusic tribes, there are a number of Russian and Japanese settlers, mainly along the railways, the Russians keeping to the north and east and the Japanese to the south, where in the Liau-tung promontory they have a large leased territory. The whole country, especially the less thickly populated parts, is infested with bandits, who go by the name of "Hung-hu-tze," which means "red beards." They are a terrible scourge to the people.

Divergent Railway Routes

Several important railways operate in Manchuria; first there is the Peking-Mukden Railway which runs from Peking, the capital of China, to Shanhai-kuan on the Chino-Manchurian border, thence north-east to Mukden, the capital

of Shengking province. A branch line runs south from Kowpangtze to Newchwang, or Yingkow, at the mouth of the Liau river.

The Chinese Eastern Railway runs from Manchouli on the Siberian border of Heilungkiang (where it joins the Trans-Siberian Railway) to Vladivostok in the Primorsk province, passing the important towns of Tsitsihar, Hailar, Harbin and Ninguta on its way. short branch line runs from Harbin south Kwanchengtze, or Changchun, where it links up with the South Manchurian Railway, owned and controlled by the Tapanese, which runs from Changchun south to Mukden, and thence on to Antung at the mouth of the Yalu river, connecting with the Chosen Railway in Korea. A branch line runs south from Mukden to Port Arthur and Dairen (Dalny) on the Liau-tung peninsula.

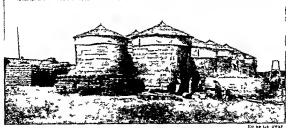
Traffic by River and Road

Finally, there is the Changchun-Kirin Railway which runs from Changchun eastward to the city of Kirin, capital of Kirin province. Other railways in the vicinity of Manchuria are the Ussuri Railway, running from Vladivostok northward down the valley of the Ussuri to Khabarovsk on the Amur and the Amur Railway, which branches from the Trans-Siberian Railway at Kaidalova and follows the Amur valley to beyond Blagovyeshchensk.

A considerable amount of steamer traffic plies on the Amur and Sungar rivers, steamers ascending the latter as far as Kirin city. Traffic between Petuna Harbin, Sansing and other large towns on the banks of the Sungari and the Amur is entirely by river steamer or native sailing boats. The Yalu also carries a considerable amount of traffic, though not navigable for steamers beyond Antung.

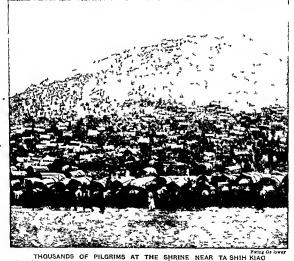
There are numerous roads in Manchuria, but they are excessively bad, being absolutely impassable during the rainy season. All traffic on these is by cart, drawn by teams of mules, and by ponies. Sledges are extensively used in

MANCHURIA



STORAGE BINS OF THE MANCHURIAN SOVA BEAN AT DAIREN

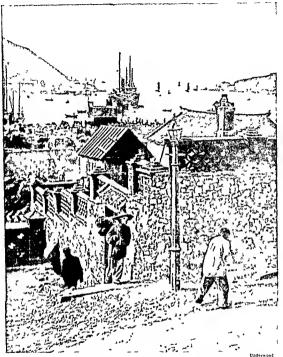
Manchura is primarily an agricultural country and its so I is considered one of the richest in the
world Among the chefrops are soya beans in liet and wheat the first mentioned bring the primarpal
export. A nat so of trop col. As a this annual herb the main tay of the agr cultural population is
culturated extensively as a source of bean of 1 bean cake—a valuable cattle food—and soya assuce



Ta shik kao is a village about 50 m les south west of Lao-yang and on a hill outs de the town stands an old temple within which is a shine ded cated to the three sisters of Chau kung ming. In April of the Chinese calendar a great festival is beld in memory of these sisters when p Ignims come on foot and in mat rooted carts from all quarters of the country is de

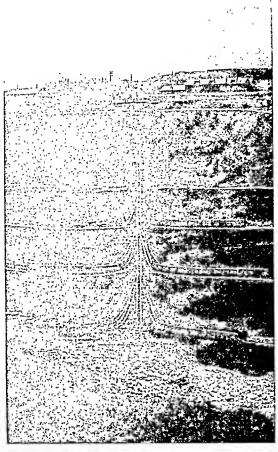
MANCHURIA

2693



OVERLOOKING THE DOCKS OF DAIREN, PREMIER PORT OF MANCHURIA
The fine harbour of Dairen treaty port in the Liau tung peninsula is tee free and protected by a
breakwater to oop yards long. Its numerous sheds and warehouse are under the control of the
South Vunchurian Railway Company which has its herdquarters in the town Darens is connected
by rail with Port Arthur and Mukden and is the customs port for all the terrory leased to Japan

Chinese as the Kitai, while the word Cathay is also derived from Ketan The Ketans were overthrown by another tribe the Nuchens from Manchuria who established themselves as the Chin (Golden) Dynisty in China and who were the ancestors of the Manchus After the overthrow of the Nuchens by the Mongols under Jenghiz Khan in the thirteenth century Manchuria seems to have relapsed into partial savagery at least, the whole country breaking up into small tribes. One of these that which formed the remnant



OPEN CUT, FUSHUN COLLIERY Fushun colliery lies 30 miles south-west of Mukden and has an area of 13,700 acres. The photograph shows the open cut near Chien-chin-chai

of the Nuchens, began to grow in power and in the end conquered all the others and began attacking the Ming Empire, which, meanwhile, had replaced the Mongol (Yuan) Dynasty in China. This new tribe called themselves Manchus. In the end they conquered and overran China, establishing themselves as the Ch'ing (Clear) Dynasty. Thus for the third time a Manchurian dynasty ruled in China. The Manchus continued in power till 1912, when they were overthrown and China, including Manchuria, became a republic.

Meanwhile, the Russians had extended their conquests across Siberia, coming into contact with the northern outpost of the Manchu Empire in the seventeenth century. In 1689 a treaty was signed with Russia making the Yablonoi mountains and the Argun and boundary line Gorbitza rivers the and Manchu between the Russian empires. Russian aggression continued, 1858 the treaty however, and in of Aigun was signed, which gave her the Amur and Primorsk provinces, with the Amur river as the boundary.

Next Japan went to war with China in 1894 and occupied a large part of southern Manchuria. She was prevented from keeping any of this territory by the other powers, notably Russia, who in the end extended her sphere of influence all over Manchuria, building strategic railways and establishing an extensive naval base at Port Arthur.

In 1904 Japan went to war with Russia, whom she defeated on land and sea, subsequently taking over Port Arthur and a large piece of territory on the Liau-tung peninsula on a long lease from the Chinese Government. Japan's sphere of influence was extended to Chang-chun, while that of Russia was confined to the line of the Chinese Eastern Railway northward. Japan still retains her grip on south Manchuria, but the north reverted to China when the Russian Tsarist system fell to pieces.

GEOGRAPHICAL SUMMARY MANCHURIA:

Natural Division. An old land, with evidences of great volcanic activity, part of the ancient continent of Angaraland. (Cf. North-East Canada.)

Climate. East coast marginal oceanic climate, with great extremes, severe winters, hot summers, short intervening seasons rains in summer and winter snows. (Cf. Newfoundland, Quebec and Nova Scotia.)

Natural Vegetation. Forest both broad-leaved and deciduous, near the oceanic

border (cf. Quebec, New Brunswick);.

desert in the west.

Products. Timber, soya bean, wheat,

tobacco. Coal and gold.

Communications: Railways are increasing in mileage, rivers serve for local

purposes. With great natural resources, yet not so inviting an area as Australia or British Columbia, Manchuria awaits de-Outlook. velopment under a steady political regime by an energetic and industrious people.

MEDITERRANEAN SEA

Cradle of the World's Sea Trade

by Lewis Spence

Author and Anthropologist

THE shores and waters of the Madeterranean sea the Made Internal of the ancients provided a fitting and picture-que setting, for the successive acts and scenes of this stermy drawn of early human lustors.

Its borders have witnessed the rise and fall, the trainplis and vicissitudes of Level of Greece of the Syrian maritime enter of Carthage the ancient queen of commerce and of the Latin consider of Rome and Byzantium On this yest lake the shores of which are continents perhaps the first sea coing were launched a reserts It experienced so many cycles of alternate prosperits and decay that in a manner it serves the historian as a species of nulse by the throb of which he is enabled to test the world's heart beats

I ven to-dry it is still the most sital of the arteries of our planet. But the 800 000 square miles of this almost find locked canal of the middle cirth once the jealously guarded preserve of successive powers are now regarded as the common property of humanity.

Two Hute Decrees one

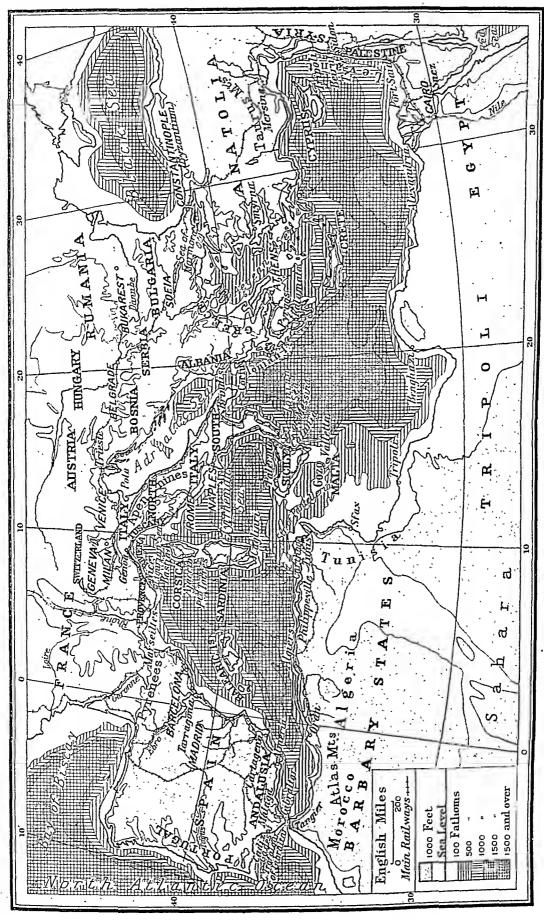
The mights forces of time and terrestrial upheaval of earth pressure and volcanic cataclysm have divided the vast land locked sea into two great basins western and eastern The first indeed presents almost the appearance of a separate ocean only the compara tively narrow channel between Sicily and Tunis giving its waters ingress to the Here the coasts of Spain oriental area France and Italy forming a deep mlet or arch confront the more regular coast line of Morocco Algiers and Tunis But in the eastern area it is the African littoral, Tripoli and Lgypt which dips away Imm the jutting pennsulas of Italy and Greece the apposing shores meeting at last in the cul de sac formed by the Levant. The principal natural areas of this wast expanse have come to be described with reference to their coastal environment as the Balearie Ligurian Tyrthenian Adriatic Ionian nal Acquas sacs names richly doquent of historical and poetic memories

Stern Contrasts in Coast I ne

The Furopean latteral is for the most part folty steep and hold but the shores of northern Africa are with the exception of a few rocky headlands shelwing flat and sandy. The Levan time limits again rise in their more mortherly shores into rugged cliffs which gradually merge into the level flats and should of Syria and I gopt. Many great and historic rivers among them the Nile Rh ne I lim and Po to take them inorder of magnitude compty their floods into the writers of the Mediterranean.

Ships plied upon the Mediterranean at a very carly period. Recent research claims to have established the fact that the invention of sergoing vessels was due to the Leyptians of pre-dynastic times. At a later date they initiated trading intercourse with Crete Cyprus and Morocco Certain Lasterlings too whose precise racial identity is doubtful traded with Spain which they partially colonised at some time between 2 000 and 3 000 BC The Phoenicians of Tyre and Sidon followed in the wake of these pioneers exploiting Cyprus for its copper and working the lead and silver inmes of Gades in Sprin

About 850 BC they founded the great colony of Carthage in north west Africa which for more than five



GREAT INLAND SEA WITH ITS ISLAND BRIDGES AND ITS TWO GREAT DEPRESSIONS

funnel of the Strait of Gibraltar catches the full force of the Levantine or easterly and the Poniente or westerly wind-currents. It also occasionally deflects the south-west Vendevoles, unpopular with mariners of all times.

Rainfall and Waterspouts

In the Mediterranean proper, westerly winds prevail from October to May, and easterly in the remainder of the year, although this rule is subject to considerable modifications owing to local conditions, the proximity of high land The counter winds and other causes. known as Contrastes which blow simultaneously from opposing quarters and under a cloudless sky usually raise heavy coastal seas, and are most commonly experienced at the period of equinox in March and April and in September and October, especially in the Strait of Gibraltar and on the coasts of Spain and southern France. November to April violent gales from the north-east or north-west frequently blow with great force, especially in the Waterspouts are of western area. usual occurrence at all seasons, but more especially in the autumn, and give rise to thunderstorms and heavy rains.

The incidence of rainfall varies with locality. On the Moroccan coast the rainy season extends from October to April, but rain occurs every month of the year, the maximum in December, the minimum in July. More rain falls, as a general rule, during the night than through the day. The maximum fall on these coasts varies with locality from 8 to 47 inches annually.

Teeming Life of Land and Water

The vegetation of the Mediterranean is among the most varied in the globe. The prolonged droughts characteristic of these latitudes favour the growth of evergreens rather than deciduous trees and shrubs. In the warmer regions pines, stone pines and oaks are most commonly encountered, and the underwoods are composed for the most part of myrtle, arbutus and mastic, though

resinous and aromatic shrubs and climbing plants are numerous. Among the cultivated trees the silver olive is preeminent and the vine and fig-tree are of remote antiquity throughout the entire area. The orange was imported by the Portuguese from China about the middle of the sixteenth century and the aloe was introduced from America.

The average depth of the Mediterranean, if its three great hollows or basins be taken together, is more than The enormous depth of 5,000 feet. 13,000 feet is sounded in the eastern Evaporation, due to the high average temperature, is on a large scale and the waters of the Mediterranean are of an extraordinary salinity which increases with depth. The steady flow of the currents along its shores assists silting at the river-mouths and the formation of deltas as in the case of the Po and the Nile. The natural warmth of the sea promotes the growth of sponges and coral and several of the species of fish it contains are important commercially, especially the tunny-fish, the sardine and anchovy.

Effect of Greater Salinity

At the Strait of Gibraltar an interchange of water takes place between the North Atlantic and the Mediterranean, an upper current flowing into the latter from the former and an undercurrent flowing out of the Mediterranean into the greater ocean. interchange is due to the lowering of the level of the Mediterranean by excessive evaporation and to the extraordinary difference in specific gravity and salinity of the two seas. There is also a similar interchange of currents between the Mediterranean and the Black Sea caused by the excessive influx of rivers and difference in salinity.

The radiolaria so frequently found in the Adriatic are rare in the Mediterranean proper, which however is rich in other foraminifera, and above all in globigerina. In certain parts to the south-east of Sardinia at a depth from 1,200 to 2,500 feet these foraminifera give forth an acid efferve-cence, a fact noted by most occurregraphers

Geologically, the Mediterranean is one of the few visible remains of that immense fault which at one time girdled the entire circumference of our globe, forming a species of gigantic worldditch. The origin of this depression dates perhaps from the earliest geological period, but though countless thousands of years have elapsed since its formation its neighbourhood still manifests a frequent tendency to volcanic disturbance. The vast rift which now constantes the bed of the Mediterranein formerly stretched far into Central Asia, and consequently that sea extended for hundreds of miles into the Asiatic land mass, forming an immense oceanic lake known to ecologists as Tetlivs

Geology Mightily at Work

Three great rock-masses of the earfs period still survive in the Spanish, ftafian and Balkan peninsulas, which are all of palaeozoic origin. Once of almost Alpine proportions, these were gradually levelled in the course of ages by subsulence, acrial denudition and wave-action, but subsequent movements of the earth's crust produced fresh folds and mountain-ranges by transverse pressure so enormous as to sever the Balearic Isles from the mainland constant action of the tides were away the nexus of fand which joined Europe with Africa at what is now the Strait of Gibraltar, and the gap has been considerably widened during the historic period But a submarine line still connects the continents at a depth of about 650 feet and retards the colder waters of the Atlantic from invading the warmer Mediterranean area to any appreciable extent. The growing depth of the Strait of Pantelleria formed by transverse cleavage a great natural approach to the main basin

The Maltese islands are fragments of a former plateau which is still gradually undergoing denudation by constant wave-action. The Hahan-Sieihan peninsula, too, was formerly joined to North.

Africa until compiratively litte geological times. The Italian crustmovements, commencing in the mesozone period and growing more marked during the tertiary age, still continue, but in the succeeding quaternary phase a large depression which had been formed between Italy and Surfly was almost filled up by volcame action, leaving only a small outlet in the Strait of Messana.

Recent Forming of the Levent

The Runchan or Balkan pennsula is probably of the same age and origin as the north-western portion of Anatolia The crumbling of this mass toward its souldern extremity formed the hillcountry of Greece with its extensive scaloud, a great stepping stone of culture between fairone and 'sia

The Lastern Mediterranean to the south of Mafta and Cyprus fies within the area of the great desert tableland of North Africa, Arabin and Syria from the subsidence of part of which this portion of the sea with its level and monotonous shores was formed. Much of this area, and especially the Levant, is, geologically speaking, of recent origin. Syria forms a cut-de-sac of the same character as the burner once presented by the Italian peninsula, but the rocky nature of its const-line protects it from serious erosion.

Cargoes from Great Britain

One of the most important streams of British shipping, that bound for the Indian Ocean passes through the Mediterranean. On the way it picks up a large quantity of intermediate traffic. especially in the form of passengers and mails, while at Port Said it is joined by an overflow of ships in ballast trading bottoms in the Mediterranean are chiefly those carrying coal to the south of France and Italy, to which Britain also ships iron, steel and machinery, but a large percentage of this is carried in foreign hulls. Only a small proportion of these return to British ports with Italian commodities.



LOOKING ACROSS CORFU TO THE ISLAND'S NORTHERN MOUNTAINS Separated from Albania by a wide strait. Corfu, the largest and most northerly of the Greek Ionian Isles, hes in picture-sque solitude on the blue Mediterranean waters; its bold rocks and peaceful bays, rich valleys, and barren heights combining to render its scenery very attractive. Corfu, the fortified capital, lies on the east coast and has a considerable trade in oranges, wine and olive-oil

the remainder proceeding to Egypt, where they ship cotton, cotton-seed and oil-cake for the home journey.

Rumania takes large quantities of British coal, steel and miscellaneous manufactures, but sends back ample cargoes of maize, wheat and oil. She also exports heavily to Belgium and the Netherlands, in which carrying trade British vessels have a considerable share. Algiers and Tunis also absorb very large cargoes of British coal, sending in return ores, grain, manures and esparto. Eleven million tons of shipping under the British flag pass eastward through the Strait of Gibraltar annually.

The principal routes of sea-communication in the Mediterranean are those from Gibraltar to Naples and Genoa by the Orient Line; from Toulon or Marseilles to Naples by the same

line and the French "Messageries Maritimes"; from Genoa to Tunis via Leghorn ("Societa Nazionale"); from Naples to Tunis ("Ferrovie dello stato"); London and Marseilles via Genoa and Naples to Alexandria and Port Said ("P. & O.", Orient, Royal Mail, White Star and Bibby lines, and Rotterdam-Lloyd); and from Marseilles to Constantinople ("Messageries Maritimes").

The only Mediterranean islands of any importance not mentioned elsewhere in special chapters in this work are those of the Corfu or Ionian group. Corfu, the principal of these, is 227 square miles in area, and has a population of 122,000. It is chiefly remarkable for its varied and striking scenery, in which bold and craggy uplands are diversified by level plains. Its fairy-like bays have inspired many striking descriptions.

MEDITERRANEAN SEA: GEOGRAPHICAL SUMMARY

Natural Division. One of the oldest stretches of water in the world, the relic of the ancient Middle Sea which laved the shores of the three ancient continents of Arctis, Angaraland and Gondwanaland.

Climate. The typical climatic region of winter rains—warm, wet winters and hot dry summers. It shares in the abnormal winter warmth of the coastlands of Western Europe. This climate is typical of all lands on the eastern margins of the great oceans and on the polar edges of the hot deserts.

Vegetation, etc. Evergreens, drought-resisting plants. Citron trees. Maquis.

Its coast-lands are lands of wheat, but not of rice or rye; oil, i.e., olive oil, but not butter or lard or palm-oil; wine, but not beer or toddy. The characteristic animal is the goat (cf. the mohair of Anatolia) rather than the ox or sheep; the characteristic fruit is the fig or grape.

Outlook. The Mediterranean lands formerly held a monopoly in the supplies of citrons and dried fruits. Their future lies in their reply to the fierce attack on this monopoly from the "Mediterranean" areas of other continents; cf. the marketing in London of South African oranges, Californian plums, Australian raisins.

MELBOURNE

. A City Planned on Model Lines

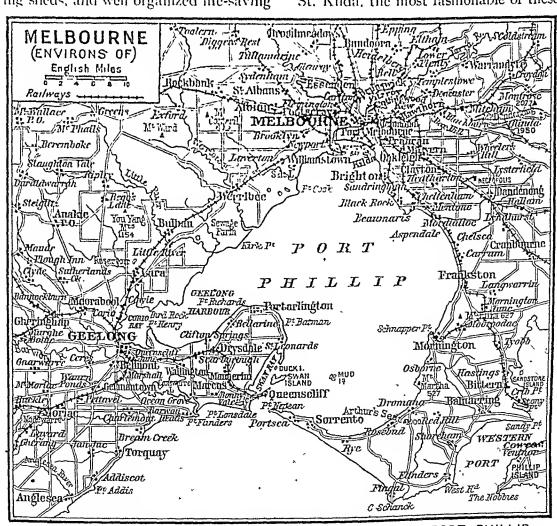
with the "Port Melbourne" on the shores of Hobson's Bay, an indentation in the harbour of Port Phillip distant about three miles from the centre of the city.

From Port Melbourne rnns the great sickle-shaped curve of the beaches, where all Melbourne turns to bathing and swimming for the greater part of the year and especially in the summer From one end to the other the length of this beach resort is about twelve miles, and strung along it are the suburbs of South Mclborrne, Albert Park, St. Kilda, Brighton, Sandringham, Black Rock and Beammans. The nearest is distant only about twenty minutes by tram, the farthest about forty minutes from the centre of the city. All the beaches are well provided with extensive and comfortably fitted bathing sheds, and well organized life-saving

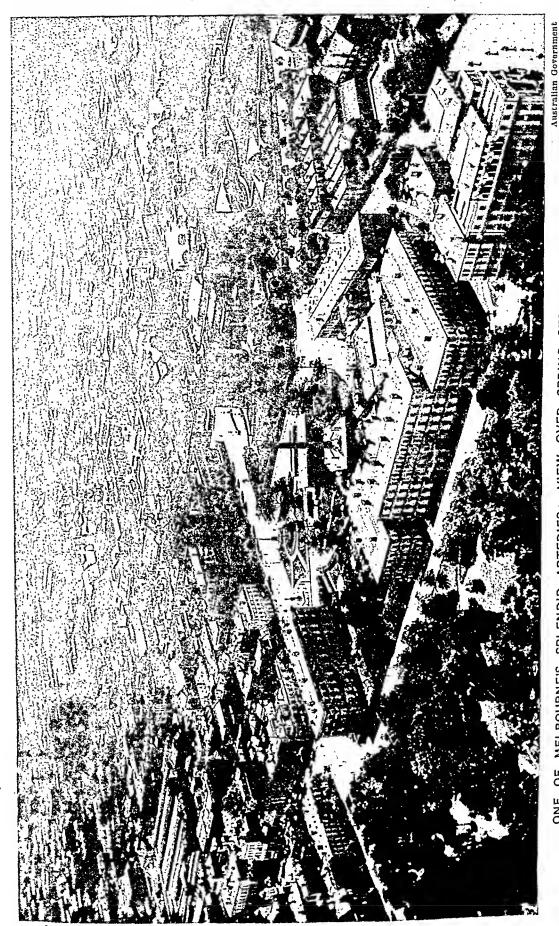
ciubs constantly patrol the beach ready to help any swimmer in difficulty, although only carelessness or ignorance can be the cause of any danger since there are no currents or eddies to make bathing musafe.

The accessibility of the sea naturally attracts swarms of people for bathing, and also for boating. Port Phillip, large enough to give ample scope for sailing and yet sufficiently landlocked to guard against any heavy seas, making an ideal sailing water. Practically all the year round fleets of motor-boats and yachts may be seen cruising about the harbour. By far the greater part of the yachts are small open boats carrying a huge sail area and large crews in proportion to their size. Almost all are owned by the men who sail them.

From the "city" of Melbourne to St. Kilda, the most fashionable of these

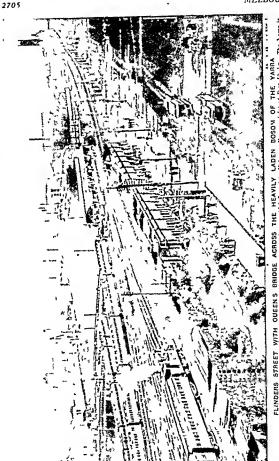


CRESCENT CURVE OF MELBOURNE'S SUBURBS ROUND PORT PHILLIP

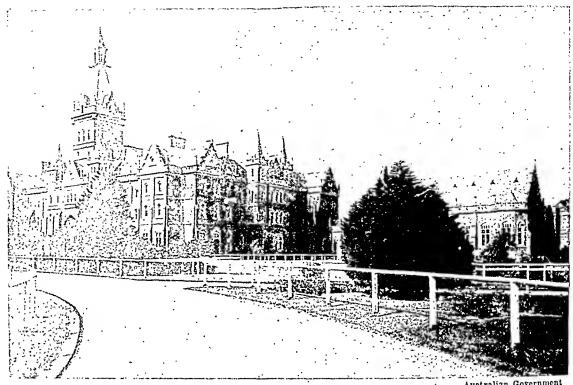


In the fereground of the photograph are the well-wooded Treasury Gardens. Opposite is a block of government offices, on the left hand of which, and separated from them by a small clump of trees and shrubs, is the Treasury. On the same side of Spring Street, but farther along, is Parliament House, between which building and the Treasury is a statue of General Gordon. Beyond Parliament House, on the opposite side of the street, is a corner building, the Princess Theatre. Spring Street extends from the junction of Flinders Street and Wellington Parade to Victoria Street. In the distance is the rotunda of the Public Library ONE OF MELBOURNE'S SPLENDID ARTERIES: VIEW OVER SPRING STREET FROM AN AEROPLANE In the foreground of the photograph are the well-wooded Treasury Gardens.

MLLBOURNE

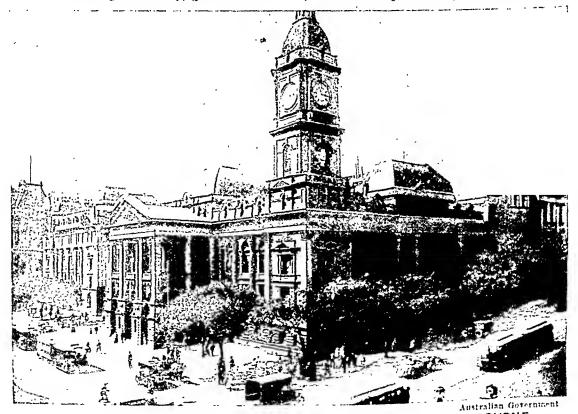


Queen a 1 ridge leads to the Vorra Bank Koad in South Melbourne is situated at the north and of red falling on the langs of the etter Name with from the city benefit core Craul.
Welbourne is situated at the situation of society of the date of the date of states from the main to the city benefit city by the Grove Craul.
Welbourne which is the city for society of the date of the date of the main to be an eldower this. Over at the date of the hours where we where are the coaches, by I Hagy out and founders wit it it is the specific from type mailtime thace.
We so me where are the coaches by I Hagy out and founders wit it is the specific from type mailtime thace.



Australian Government

UNIVERSITY PILE OF ORMOND COLLEGE, MELBOURNE STATELY The university, which was established in 1855, is a congeries of buildings set amid extensive grounds about a mile north of the heart of the city. It consists of the university buildings proper, a medical school, a natural history museum, the Wilson Hall—a building in the perpendicular style—and the three colleges of Trinity, Queen's and Ormond, the last being the Presbyterian College

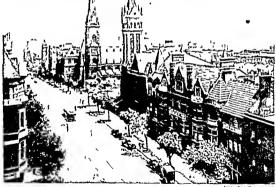


MELBOURNE CLOCK TOWER OVER THE SPLENDID TOWN-HALL IN Melbourne has a fine town-hall at the corner of Collins and Swanston streets. The building contains a vast central hall capable of accommodating 2,500 people; in this hall has been installed a magnificent electric organ. About here is the central district called the "ciry," which occupies two hills, and in the valley between these eminences runs Elizabeth Street, which is parallel to Swanston Street The building contains

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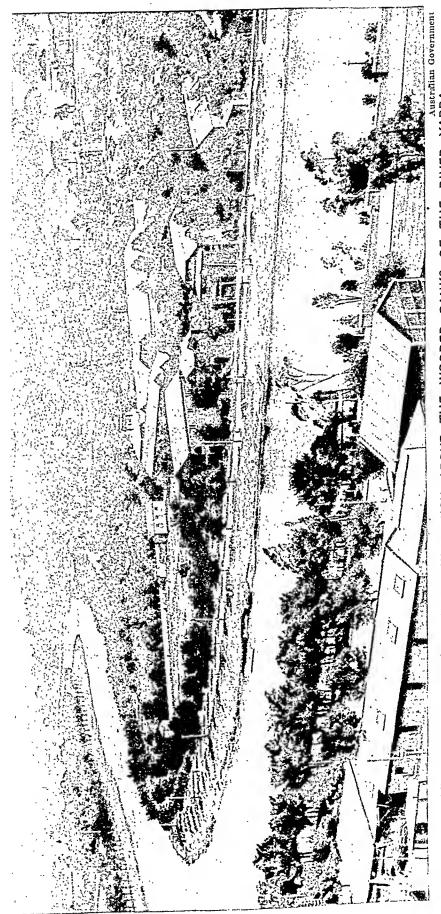


SOUTHERN PORTION OF THE "CITY" FROM ALEXANDRA GARDENS On the worth bank of the A arrall tre is a fine expanse of gardens stretching to the location is designed to the profit of the legislation of the port of the profit of th station to the right of which on the corner of Swans; in Street is S. Paul's Cathedral



LOOKING DOWN COLLINS STREET TOWARDS THE TOWN-HALL

Collins Street is one of the fashmonable thoroughdares of the city, and in it are many of the best shops The road runs from Spring Street to Spenner Street. Opposite each other on the corners of Collins and Rossell streets are two churches. The first is the Independent church, a fine Saracenic building with a massive campanile, the second a Gothic edifice surrayonited by a botty spire, the Socios church



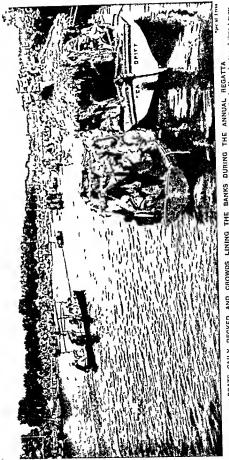
Government House, the residence of the governor-general of the Commonwealth, stands in extensive grounds sloping down to the Yarra. The grounds are continued in the Botanical Gardens, which lie on the farther side of Government House. In the distance are the suburbs of Richmond and Prahran and on the left is Yarra Park, which contains the Melbourne Crieket Ground, while to the west of the Botanical Gardens lies the Observatory. South of Prahran is St. Kilda, one of the most fashionable suburbs and connected with the city by the famous St. Kilda Road, which is five miles in length and has sections allotted to cach class of traffic most fashionable suburbs and connected with the city by the famous St. Kilda Road, which is five miles in length and has sections allotted to cach class of traffic THE WOODED BANKS OF THE RIVER YARRA GOVERNMENT HOUSE WITH ITS , TOWER HIGH ABOVE

MELBOURNE

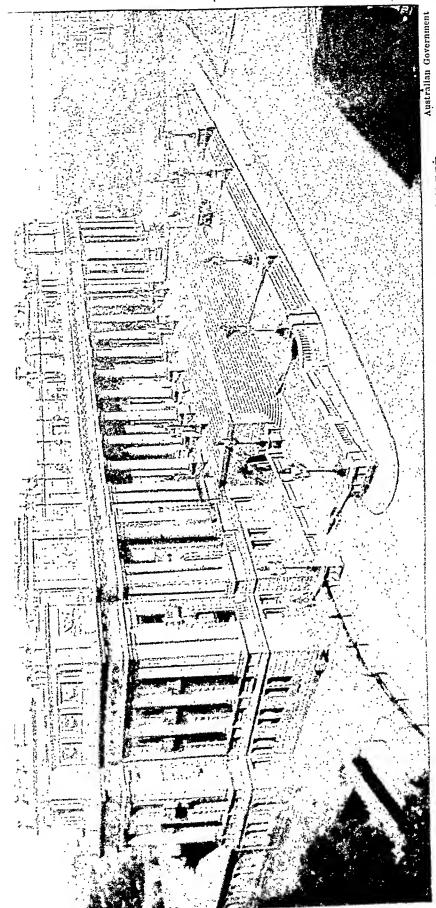
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Healy-on Yarra is the great annual recairs on the riser and thousands of yells cross that there is and regard. He selects and a bounded of yell occupies the tried had had any after the forest worker both the course. Insofter content are to be seen upon the present and thousands of the present of the following the following the balloome of the following chain and all the following the all the value of the following the





Henby on Yarra is the great annual regata on the giver and this securi is to the people of Veltourne what Henby, is in Fig. Jand. Househorst and almost electroconceivable by pe of mer crist are to be sexua upon the new of the sound the mental of people occupy, but reft hand banks along the white lead, in 60 the course the conceivable by the substitute of Famington and the substitute river to the north world the cuty. By the Yarra is Studiey I ark with has been left in its natural state. BOATS GAILY, DECKED AND CROWDS LINING THE

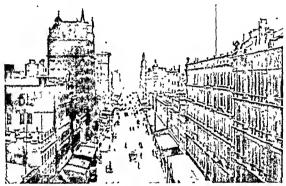


Or posite the top of Bourke Street stands the Parliament House, a massive square building with a broad flight of steps leading up to the magnificent colonnaded Example of the state to the Federal Parliament pending the completion of the new House at Canberra, is lavishly ornamented in the interior, and the state of Queen Victoria, and a group commemorating and certains a Maray of over force welling. the three experent, Walcrt O'Hara, Bourke and William Wells, who died in endeavouring to cross Australia from north' to south SPRING STREET IMPOSING STRUCTURE OF THE FEDERAL PARLIAMENT HOUSE IN

and members have the use not unly of cricket grounds but also of tennis courts, bowling greens and a gymnasium, while the Club House is a model of comfort or even of luxury.

Outdoor sports are fostered by the climitic conditions which allow open air games to be played for at least ten months out of the twelve. Occasionilly very hot winds blow from the north for two or three days at a time, but these buildings in the large grounds of Parksille, compares in its buildings the university proper, a large natural lastory muscum, the Wilson Hall and the three affiliated colleges of Trunty (Anglacin) Ormond (Presbyterian) and Quicens (Wiskyan) besides the Weiheal School

The university is undenominational and grants degrees in the faculties of Arts. I in Medicine Science Civil I ngu eering and Mu i



TWO-MILE VISTA DOWN ELIZABETH STREET TO NORTH MELBOURNE Filest-th Street is one of the longest roads in Nelbourne, extending from Funders Street in the south to Remination Road in morth Melbourne a dutance of over four mise. The clock tower on the right hand side is that over the General Post Office on the connected buildings are similature dayscrapers, being twelve or fourteen storeys in height

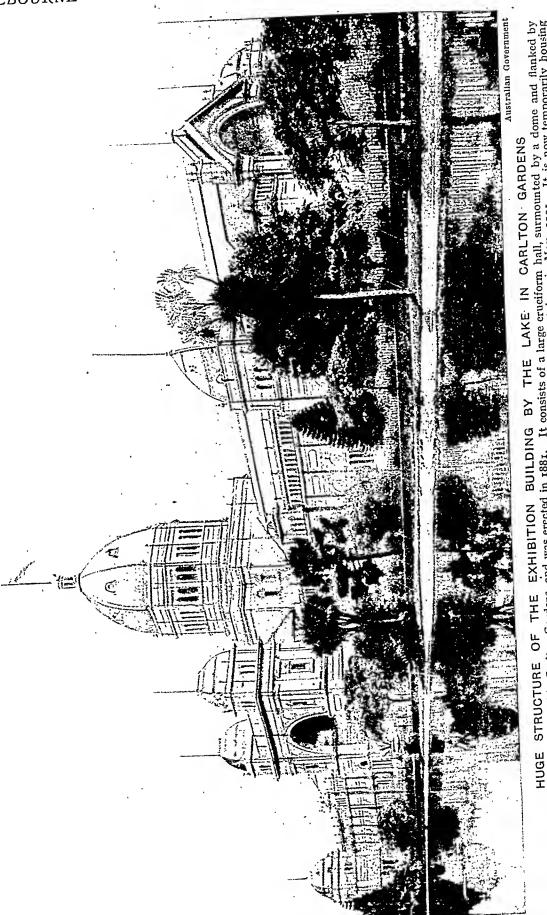
periods are exceptional and for the greater part of the year the days are dry and mild and the sky clear. Snow is practically unknown, and theles around rainfall x 2558 inches. The mean temperature is 57 3°F.

But although such conditions naturally attract the sport-loving Australian to the open air, Melbourne is by no means unheedful of the needs of the more studiously minded, and especially of those seeking the advantage of a first-class education

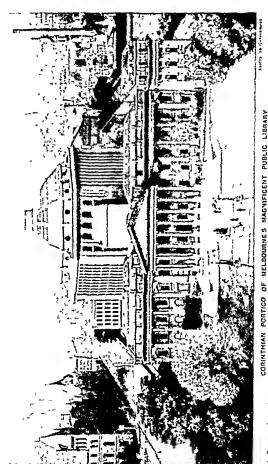
The university, established in 1855 and housed in a picturesque pile of

The Public Library and National Museum includes a technological inuseum, a sculpture school, a national picture gallery and one of the finest collections of standard books in the world of over 260,000 volumes. There are an additional 40 000 volumes in the I ree Lending Library.

Other notable buildings are the townhall with its spicious hall accommodating 2 500 and with a famous and splendid electrically controlled organ, the Houses of Parliament at the top of Bourke Street, lent by the state parliament to the Commonwealth until the House

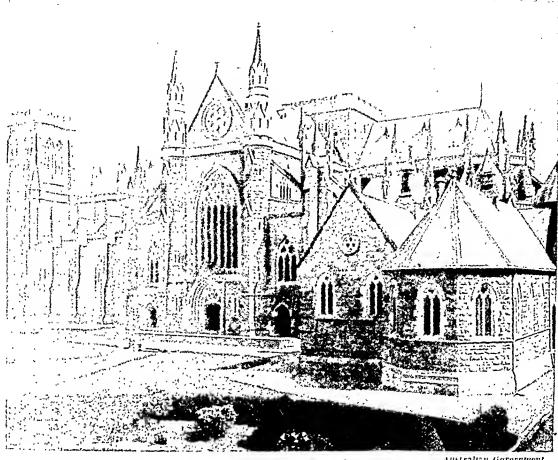


Exhibition Building stands on the hill in Carlton Gardens, and was erected in 1881. It consists of a large eruciform hall, surmounted by a dome and flanked by annexes. King George V., then the Duke of Cornwall and York, opened the first Federal Parliament here in May, 1901. It is now temporarily housing two annexes. King George V., then the north side of Victoria Street, almost immediately above the point where it is renamed Victoria Parade. Use Victorian legislature. Carlton Gardens are on the north side of Victoria Street, almost immediately above the point where it is renamed Victoria Parade. Within the city proper are three-gardens, Carlton, Fitzroy and Flagstaff, all with magnificent tree-lined avenues and ornamented with ponds and fountains



In Swanton Street there stands the coloneal building of the Pattle fifters, which also contains at withing the art gallery and the graves in the defined of a character of the Pattle content of the fine of the first of the pattle of the first of the pattle of the pattl

MELBOURNE



BLUESTONE PILE OF S. PATRICK'S ROMAN CATHOLIC CATHEDRAL S. Patrick's is the Roman Catholic cathedral of Melbourne, and the seat of the archbishop. It is a somewhat squat and irregular structure in Albert Street, constructed of sombre bluestone. S. Paul's Cathedral, in Swanston Street, is the seat of the Anglican bishop, and has a graceful exterior; but it is overtopped by surrounding buildings and loses some of its impressiveness

at the new capital of Canberra should be Treasury Building in Spring S. Patrick's Roman Catholic cathedral, the Scots church and the church, centrally Independent all situated; the Law Courts and the Exhibition Buildings.

railway system of Victoria centralises in Melbourne, through which passes the main line from Adelaide to Sydney. From Melbourne two lines go eastwards to Port Albert and Orbost in the Great Valley.

Magnificent as the city is, her people are not content to rest on their laurels and are planning an extensive scheme for civic betterment which in some respects is unique. Proposals which have been adopted by the Planning Association and are to be submitted to a commission include the formation of an agricultural belt, an

outer ring of park lands, a civic centre and a garden suburb. Other problems are concerned with the control subdivisional sales, reserve areas in suburbs, health resorts and recreation areas, children's playgrounds, zoning system and road construction.

The proposed agricultural belt will be three miles wide at a radius of about ten miles from the city, and on this no further building except farm and orchard buildings will be allowed, the object being to prevent unwieldy growth and permit the economical transport of farm produce to the metropolis. The result must be a healthy conjunction of city and country life such as is unknown today in any great city in the world.

The other proposals for a civic centre and so on will also add to the magnificence of appearance in a city which is already notable in this respect.

MESOPOTAMIA

The Birth-place of Civilization

by Edmund Cand'er

Author of The Long Road to Bag lad etc

F1W countries lend themselves so easily to geographical defiction as desoportion. Its boundaries are deserts and mountains. The Arab geographers following a natural delimitation lave divided it into two distinct areas.

The lower and fertile zone is Irak This is the alluvial d lta Тис пррег zone is known as lezirch or island that is the land between the rivers. The dividing line may be drawn roughly from the Tigris to the I uphrates some 50 miles above Bigdid a little to the north of the point where the two rivers are nearest to converging. South of this natural boundary between the desert and the town we have a dead flat cultivable and occasionally cultivated soil-five per cent perhaps of the potentially fertile area has been brought under cultivation while to the north of the alluvial deposits there extends a rolling undulating plain intersected by outgrops of rock and bare and treeless a land of unrelieved sterility until one comes to the submontane tracts to the north of Mosul the glacis of the table lands of Armenia and Anatolia than half the population is nomadic

Great Wastes as Boundaries

To the east south east and north east the same featureless desert stretches to the uplands of Kurdistan and the Persian border. The western boundaries to the south and north are the Arribian and Syrian deserts. On all sides the terrain has a gentle upward slope from the central depression. Bagdad 350 miles from the sea in a straight bne is only ros feet above sea level.

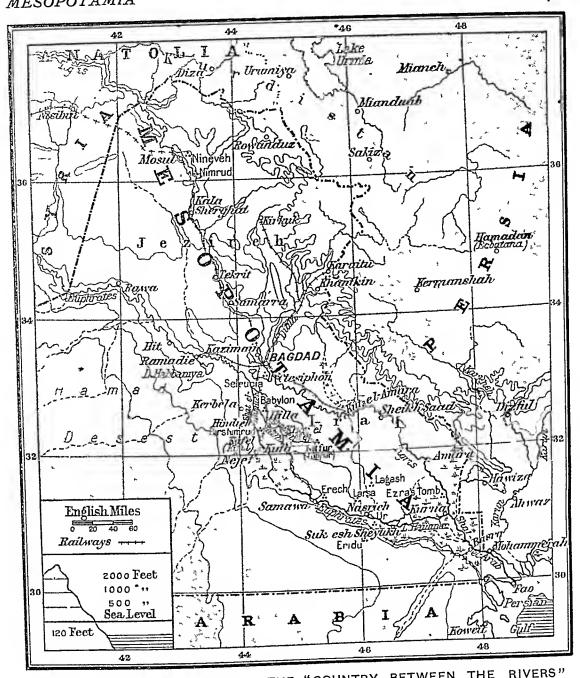
Mesopotamia including Irak and Jezirch desert steppe and mountain lins an area of 150 000 square miles yet a rough estimate of its population gives a causa of less than 2500 000. This ratio of 131 inhabitants to the square mile is an indication of the inhospitality of the soil. Probably the greater part of the plans area has always been desert much of it that was once under entityation has been bandoned, while the rugged mountain walls that enclose the plan to the east and north are courally munitabilitable.

Cradle and Grave of Mankind

The only zone that receives sufficient runfall for crops and perennial passurage independent of irrigation is the inpland country at the foot of these high ranges. The Kurdistan plateau is feetule and well watered from the bills a country of rolling downs good crops and excellent pasture. In spring the whole landscape is a vivid green the flora that of an Linghal June in a corn country.

But Vissopotamia enjoys only a thin fringe of ferthity. It is usual to think of Irak in the terms of the first chapters of Genesis. It is the cradle of the human race and the grave of its earliest envilorations. The traveller on its deserts and waterways soon forgets the cradle legend though he is ruminded every hour of the grave. Such is the deadness of this arid waster of country.

It is a land of excess The climate is seldom moderate I have known a difference of 40° I between the temperature of day and night. From the end of April to October the heat is barely supportable. The mean monthly maximum temperature during August at Bagdad is x19 5°, but this is a dry heat. In the south of Lower Mesopotamua the



MARSHLAND AND DESERT OF THE "COUNTRY BETWEEN THE RIVERS"

climate becomes moist as well as hot. At Basra the conditions approximate to those of the Persian Gulf. Here a temperature of IIO°F. is less bearable than I2O° in Bagdad.

The heat of the desert is staggering. The refracted rays from the sand leap up and buffet you. There is an element of combat in it; one feels as if one were being licked by gusts of flame. The heat is fierce, rather than depressing; it does not infect one with the same insidious relaxation of fibre and spirit

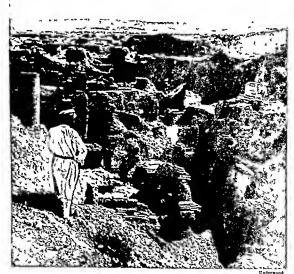
as the atmosphere of Basra, moist with the exudations of the drying marsh. There the very air seems to sweat. There is no hint of freshness even in the early dawn.

And each variety of heat has its attendant insects, its own peculiar plague, dysentery, fever, skin disease, jaundice, scurvy, colic, eruptions of every kind—the Bagdad boil, for instance, or the Aleppo "date" or the "dog-rot" of the Karun, the legacy of some poisonous fly. In the hot weather

the plague cycles are unbroken and continuous, the plagues overlap one another. But there is one respite. In the ventable dog days the heat becomes so intense that even the flies and mosquitees with and die.

The prevuling wind which sweeps over Irak in the hot weather is the "shimil" from the north-west. It begins with a light breeze at sunnse increases in velocity during the day and drops at sunset. Though hot and dry the shimil brings some sort of alleviation. It is better than complete stillness though it bounces off the ground and flugs the said and

dust in your free like sparks of fire The climatic conditions of Mesopotamia must have deteriorated since the days of the Babylomans when this firepit was the hub of the universe The delta when one has passed beyond the palm limit kaves an effect on the mml of an illimitable prison yard. This is no undulating steppe no variety in monotons even One misses the chal lenge of the desert. The only land marks are the relics of old mounds and caral embankments which have sur vived from the days when Mesopotamia was the granary and central trade mart of the world. All the ancient dynasties

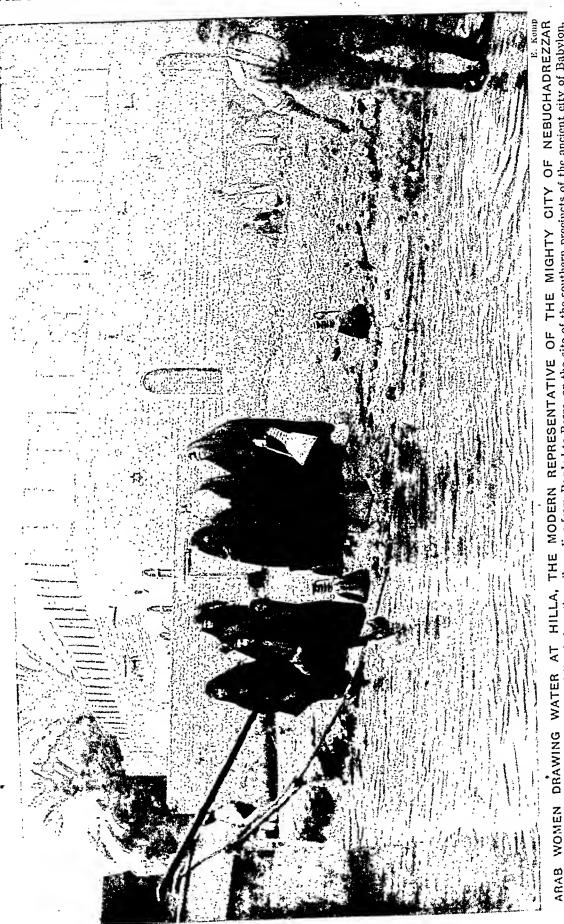


EXCAVATED RUINS OF ANCIENT BABYLON BY THE EUPHRATES

Babylon was situated on the Eupi rates about 60 miles south of the modern Bagdad Its ru ns

are chelly associated with the temples of the city and cover on area of about 10 square miles.

They are in the form of huge mounds two or perhaps three Babylons having been superimposed the one above the other. The Hanging Gardens have been located in the north part.



Hilla is situated about 60 miles south of Bagdad on the railway line from Bagdad to Basra, on the site of the southern precincts of the ancient city of Babylon, whose tertilbing waters are carried by canals to the neighbouring fields. Irrigation is the keynote of all agricultural development in Mesopotamia, and numerous The town, luxuriously embowered in palm groves, is divided into two quarters by the Euphrates, remains of great familiase watercourses in the vicidity of Hilla prove that the Babylonian kings realized that economic prosperity rested on river control and is mainly built of bricks from the surrounding ruins.

ol Babylonia and Assyria, Sumerian and Semitie, the Romans, Greeks, Parthians, Persians, Medes have been sucked into this insatiable void, which has closed over them like a quicksand

One of the first sights that is pointed out to the passinger on the rit er stermer plying between Basea and Bagdad is the Girden of Eden at Kurna Here the channels of the Tigris and Euphrates meet in the Shit el-Arab, the point estimaty which opens into the Persian Gulf at Pao 116 miles to the south. In Bhiheal times the two rivers and the Kurin, which now joins the Shattel Arab at Mohammerah Ind separate mouths. Ur on the Euphrates, which is one of the chief ports of ancient Baltyloria, hes miny legues inland.

The rapid advance of the delta with the alluvial deposits carried down by the rivers and the retreat of the coast line are phenomena of recent times.

Where the Garden of Eden Was

Since Near' as, Alexander's admiral, took his first from Karachi to the Karini river and explored the head of the Persian Gulf (325 nc), the delta his encrorched more than 100 miles on the sea. Kurna therefore must have emerged from the waters long after the events described in Genesis But the local tradition as to the site of the Sumerian paradise is probably not wide of the mark, it is natural that the Arab approaching the sea from the mland desert should associate the first green shride with the seat of bliss

From the mouth of the Shat-el-Arab at Fao, where the esturny is nearly a nile wide, the palm groves extend on either bank as far north as Kurna. It is a narrow belt of vegetation Penetrate it anywhere north or south of Basra, and in half a mile or so you will pass out of the shade into the barren sands. Three miles above the Garden of Eden one leaves belind the last outpost of fertility and enters a trecless waste of swamp and desert. One passes scanty patches of cultivation on the river bank and is seldom out of sight of herds of

donkeys and cattle and flocks of sheep tended by nomad herdsmen who dwell in reed buts or black tents

Inland from the river bank the desolation is unalk custed, an interminable plan of flat, baked clay. One looks in an for the fertility that made Mesoportuna the cradle of the human race and the nursery of the earliest civilizations. Nature, it seems has withdrawn her bounty. Nor is there any trace on the surface of the land of the races that enjoyed it. What relies they have left behind be buried under the soil. Only two human monuments are seen between Basta and Bagdad Erra's tomb and the Arch of Ctesiphon.

land of Ancient Verdure

Yet this is Biblical ground Tigris is the river Huddekel of Genesis The plain is the plain of Shinar Herodotus tells us that the land between the two rivers once supported a vast number of great cities Wheat was indigenous in Babylonia ' A grain returned two hundred lold sower" Ammianus Marcellinus, the Instorian of Julian's campaign, has described the country between Clesiphon and the Gull as a continuous lorest of verdure It was a green, fertile, irrigable country, rich in eorn lands 4,000 years before imperial Rome set covetous eyes on it Egypt alone rivalled Vesopotamia in fertility, and it is difficult to say which was the earlier civilization. The same physical features explain the ancient settlements in both lands

Early Empires on the Euphrates

But it was on the Euphrates, not the Tigus, that the earliest cities of Babylonia stood. The Euphrates, then as now, was more easily irrigable its banks were lower, the flow of its stream more equable. The country visible from the lower reaches of the river and in the neighbourhood of the Hammar Lake and Nasrieh is the inchest in Mesopotamia and the most pleasing to the eye. Here one enters an area of

MESOPOTAMIA 2720



DATE INDUSTRY OF MESOPOTAMIA: PACKING DATES FOR EXPORT The soil of Mesopotamia is fertile, and agriculture, aided by extensive irrigation, is steadily developing; dates, wheat, barley, cotton, rice and ground nuts form the main products. The chief date-growing district is in the south-east on the fertile lands near the Shat-el-Arab. Men, women and children are employed in the date-packing stations, and are here seen packing the fruit for export

gardens and cultivation which gives one an idea of the fertility of the land in ancient times.

These low-lying marshes, or similar ground farther inland, were probably the home of the earliest settlers. The cornfields of the Euphrates must have contributed the greater part of the levenue of Ur. The early Sumerian capitals, Ur, Erech, Larsa, Nippur and Lagash, were all on the western river, the Euphrates.

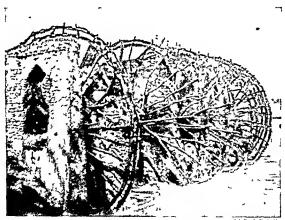
It is believed that the beginning of this civilization dates back to at least 4000 B.C. Babylon was of a later date. All that is left of these cities is heaps

of debris, low mounds strewn with bricks and potsherds breaking the monotony of the landscape. Sermons in stones, or in bricks rather, for you will not find an indigenous pebble in the delta, abound in Mesopotamia. On the surface it is the most uninspiring country in Asia, so barren is it of The average interest. feature or traveller, sportsman or soldier hates it, but to the few who can read the records in stone or clay this dead land is intensely living. The small tel, or hill, that looks like a sand-drift or a heap of rubbish is a dead city, or rather a mound of cities. For the Babylonians built the found itions of one city in the runs of another thus raising the site layer by layer through the centuries

The unmittated will find nothing inspiring in the exervations of such a number of small quadringular rooms with the walls fallen til, no where any clear outline-the area of the indistinguishable from the bouses temple and the street Some detail may anicken his imprination the ashes of a hearth in his of some sacrifice or festival an oven or in cribed brick or Froken hung objects which give him no clue to the recon truction of the past It mucht be the runs of a town raysted and deserted in the cultierath century after Christ. But the archaeologist know the date of the chamber in which he is working. It is part of a temple The inscribed brick gives ann the clac It was set in the wall perhaps when Hammuraha regenced in Babalon 2 100 years no. The energy, enterprise and wisdom of the ling are commemorated in thousands of tablets that he strewn about his city.

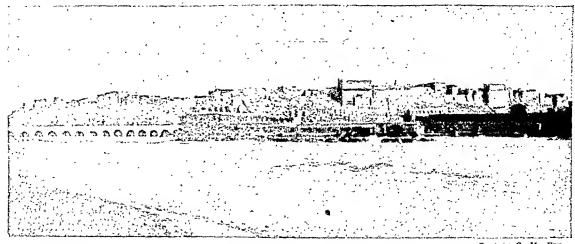
The citizen of Babylon under Ham murabi was probably better cared for than the Bagdach under the Ottoman rule of vesterday It was a paternal provident government. One gathers from the tablets that the governor of Larva had to give a more rigid account of his administration to the king than th sultans of Turkey ever demanded of the walls of Misul or Bandad Babyloman was certainly more pros perous for the Turk is an irresponsible distroyer mere appetite without Frot Islan I very lindingry that the exers afor sec. from his tent is an indict ment of him and a noroach

The long low mound on the horizon was a raised embankment that used to carry fertilisms water to the fields. In



GIANT WATER WHEELS OF PRIMITIVE CONSTRUCTION AT HIT

heres in ancient time as It the form of III situated on the Laphane is bome 8 critics porth west of Har Ha, and have very interesting listened associations are higher and wells of Hill Hard of multicrites and peacles are fur famel, as are also this half syrings and wells of listing the construction these colosial where it effects by raise water from the river



KIRKUK ON ITS HILL, AN IMPORTANT TOWN IN THE MOSUL VILAYET

The town of Kirkuk, with a population of 92,000, lies some 150 miles north of Bagdad on the Kissa
Chai, here crossed by a many-arched brick bridge. On the left bank is the artificial mound, seen above, about 130 feet high and crowned by the citadel; at its base lies the older part of the town, while on

the right bank the more modern quarter is located



NATIVE POTTER OF KIRKUK AMONG HIS EARTHENWARE

The local manufactures of Mesopotamia are not numerous, earthenware and copper vessels, baskets and cloths being practically the only products of native industry. Almost everywhere in the land the making of pottery is held in high esteem as a time-honoured art, and beautifully shaped, wheel-turned vases and water jars, usually plain but sometimes with a blue glaze, are produced

Biblical times and earlier the whole delta was intersected by carals. From time to time as predatory hordes swept over the country the e-mast often have fallen into disrepair but they were rebuilt by succeeding generations the irrigation channels were elevated of silt and the flood controlled and distributed until the desert bore fruit agram.

The bricks of the ancient canals which one now finds built into the walls of modern towns like Samawa or Hilb bear the inscriptions of the Babylonian kings. I Nerighesar led beneficent and inestraistible water to the land. And at Babylon Nebuchadrezzar s voice is heard across the ages speaking from the bricks of a protective wall that he built in the Luphrates against the flood. I Nebuchadrezzar raised its foundations on the depth of the water its top I evalted like the wooded huls.

Irrigat on a Lavish Reward

Upon the control of the Euphrates depends the prosperity of Mesopotama. The first public work that Alexander the Great undertook in Babylonia was the construction of a new head on solid ground for the Hindiech channel where the river divides into two branches the Shat el Hilla to the east and the Shat el Hindiech to the west. A bar rage was designed here for the Ottoman government by Sir William Willeocks to provide water for the Hilla branch which was silting up while the bed of the Hindi h branch was securing out and being wasted.

The barrigewas constructed before the Great War but owing to the supmeness of the Turks the canalisation work connected with it was neg ected and the cultivable area was never brought under irrigation. During the British occupation after the cipture of Bagdad the engineers got to work on the Euphrates side. In less than three months nearly a hundred cannis on the Hilla brinch which had fullen into disuse were dug out 300 000 acres were brought under cultivation and the summer of 1918 saw the greatest harvest in the memory

of man probably the greatest since the

The physical features through which Mesopotamia became the cradle of the criticst enables are in the end of course responsible for its decay. The forefathers of the human race formed in these rich alluvial flats the first human scttlement of which we have record. The conditions in the delay were propitious to the growth of an organized society the development of agriculture and industries and the communal life out of which grew the system of laws on which Hammurabi based his famous code.

Wonderful Jegacy of the Sumerians

The Sumerians were the first to exploit the secrets of science medicine Theirs was the first and astronomy They invented the sun written script draft and the division of the day into tweive parts. Herodotus acknowledged the indebtedness of the Greeks to them If the laws that govern human produc tion were static if the nations of the earth were subject to a more equable distribution of climatic and economic stress-that is to say if one paradise were as good as another—the Sumerrans might be dwelling on the banks of the Luphrates to day an unmixed race

Cocke t of Western As a

But the races who cultivated the delta of the two rivers were exposed to envious pressure on the east and west and north the chronicle of the successive waves the eampaigns of Semitic invasion against Elam the invasion of the Kassites the interrelations of Babylonian and Assyrian dynastics and the conquest of Babylon by Assyria would fill volumes and the troubled history of the first four millenniums brought no settle ment or peace. The land that contains the terrestrial paradise has continued to be the cockpit of western Asia until the present day

After the disappearance of Assyria Babyloma was subdued by the Medes Greeks Parthians and Persians in turn MESOPOTAMIA 2724



Captain C. M. Fry

PALM GROVES BY A CREEK NEAR THE GARDEN OF EDEN

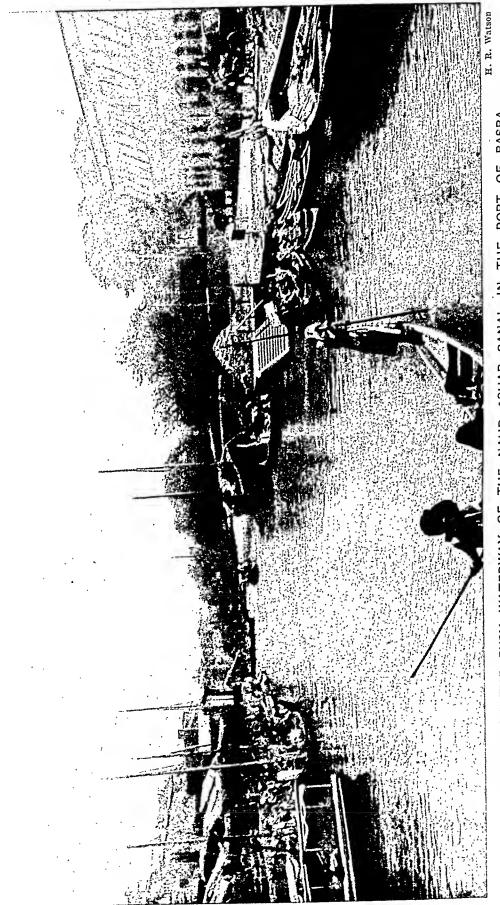
At Kurna, the Tigris and Euphrates meet in the Shat-el-Arab, and here is the reputed site of the Garden of Eden, which is the termination of a narrow belt of palms extending from Fao to Kurna. The Garden is intersected by creeks and irrigation canals, which are crossed by mouldering bridges.

A few miles above this green refuge the waste of sand begins

2725 . MESOPOTAMIA



UNLOADING GRAIN FROM LIGHTERS ON THE ASHAR CANAL, BASKA Basta is intersected by many canals which are cleansed twice daily by the ebb and flow of the tilde As the streets are as a r le universal and nature of the escaperary are the periodial means of communication and are usually cross-fed by bosts transhipping cargo from river craft and caravans to occur verse 3. There is a considerable trade in grain grown on the rich alluvial flats.



Basra, a city of Lower Mesopotamia, stands on the Shat-el-Arab, about 60 miles from the Persian Gulf. The town itself is two miles from the river, and is reached by two canals, the Nahr Ashar and the Nahr Khandak. It has always been a place of considerable importance, but during the Great War it was transformed from a squalid town of mean houses, built of sun-dried bricks, into a great port. It is the port of Bagdad, and has direct communication with SHIPPING ON THE BUSY WATERWAY OF THE NAHR ASHAR CANAL

Internutently under the emperors Trajan Septimus Severus and Julian I formed a province of the Roman I mpire. When the hand of bone grew well in the Last and the Greeks were exhausted it prised to the Parthfrins then to the new Persian dynastic the Sessial's the found is of Cresplos who leld it must they were overwholmed by the avalanche of Islam. After the Vals inclusion conquest the poperation of its success days never quite returned.

The great arch of Cie it has on the Turns the cuttal of the Sas ands is the only relice falless races that stands above ground. The greantic shall of a ruin which Town ben I smens we flowing like a helited short a sat caught the earliest rays of the sun has been the eynosure of many invadiri armi - Julian - men regarded it with elent anxiety for many weeks before that historic crossing of the Tieris To both had as the capture of the throne of the Cho-roes was a disastrous victors. But to the Vrife hordes who overthrew the Persians (AD 632) the sol nd our of Ctemplon meant the realization of their dreams

Site of Lour Successive Capitals

The runs of Baladon on the 1 uphrates he an miles to the south-cast of Ctesinlion and Schucia and Bagdad is miles to the north by land natural site for the nictropolis of the. land between the two rivers the point where the area within the embrace of the streams is narrowest Bibylon Selencia Ctemphon Bagdad commanded in their turn the great trade rontes of western Asia The streams that gave them life flowed from regions of produce ser borne trade was carned to them from the culf

To the west the desert ports Kufa and kerbela or its old world equivalent linked up Balaylon with the ancient trade routes of Araba. At Bagdad the Tigns and Luphrates are within 40 miles of converging while the Drala which joins the Tigns 20 miles downstream from the city has always been the main artery of communication with

Persi Along it by the old Babylon I chatana road. The armies of Darius Histopes Cyrus and Cho roes passed this way in the clob and flow of conquest the Mongols invaled the south by it the Aribst he north. If roun Alfaschad was familiar with it from early Mahom dan days it becam the great pilgrim route from Persia to the shrines of kerbal Nejel and Kazimana.

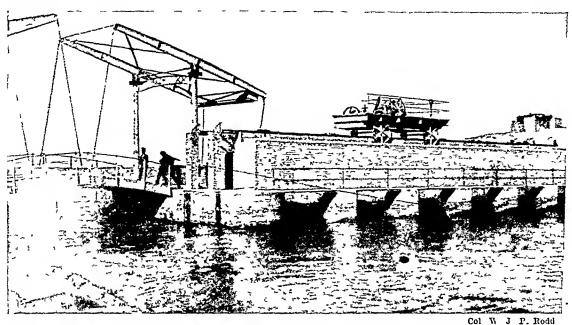
Reles of the Party Lings

The Babylon that the excavators have Frought to halt is the Bibylon of the Instorrage Herodotus Cresus Diodorus Sculus, the new Babylon of the Bille the captivity and Nebuchadrezz ir 11 of the last denasty that remained from 625 to 535 p.c. Nebughadrezzar is the king and Marduk the god of whose palaces and temples the uninstructed visitor is mo t often remind al. But the archaeo. I says have discovered traces left by the first dynasty of Babylonian kings who were separated from Sebuchadrezzar by twice the lapse of centuries that divide our own time from the Norman conquest There are rules too which point to a relistoric Babylon but it is imposible to excavate down to this depth owne to the rise in the water level

Babylon Wondrously Built

Herodo us gave the city a perimeter of 60 miles. Ctesins of 50 modern research has reduced the circumlerence to Otherwise the general descriptions of the historians are accurate city walls of Nebuchadrezzar a triple rampart the outer and inner walls in cluding the wall of the forse at the foot are from 17 to 22 yards thick Two terms of four horses abreast could pass each other on the outer barrier and the walls were towered. The city was built with broad straight streets at night angles and tho e that led down to the ruer passed under the wall through little gates of brass. The two flanks of the wall rested on the Fuphrates and were extended on the other side so that the city formed a triangle through which the river flowed diagonally. But so far

MESOPOTAMIA 2728



HINDIEH BARRAGE THAT CONTROLS THE WATERS OF THE EUPHRATES Much care has been expended on the control of the Euphrates and on the draining of its swamp lands. At the head of the Hindieh Canal, where the river bifurcates into the Hilla and Hindieh branches, a barrage, of pre-War construction, assures a continual supply of water in the eastern or Hilla branch, the main bed, and prevents that of the Hindieh from wasting itself in the western marshes

no traces of Babylon have been found on the right bank; the excavations are all on the left bank of the stream.

The excavators have been most active in the Kasr, or acropolis, the centre of the city and the most renowned of the eminences of Babylon. They have followed the line of the Kasr roadway, a broad street which leads to the Ishtar Gate, made by Nebuchadrezzar as a processional road for the great god Marduk, to whose temple of E-sagila it leads. The double gate of Ishtar is by far the most striking feature of Babylon that the archaeologists have revealed. The walls stand 40 feet above the foundations and are covered with figures of bulls and dragons in nine horizontal lines in relief.

Many of the stones and bricks are inscribed with the name of the street or building for which they were designed. Nebuchadrezzar has described the nature of his repairs, his motive in building and the material he employed. And he has invoked curses on the head of whosoever shall obliterate the king's name. Thus the archaeologist, thanks to the providential vanity of a line jealous of the records of their name, has been able to identify the sites of Babylon. He will

point you out what he is convinced is Belshazzar's banqueting chamber and the vaulted roofs which once supported the hanging gardens.

One of the scanty relics of the Jewish captivity that have survived is the tomb of Ezekiel at Kafel, a shrine revered by Jew and Christian alike. Ezra's tomb, the blue-domed shrine in the palm clump that is pointed out to one a day's journey upstream of Kurna, cannot be the original tomb of the scribe, for the Tigris on whose banks it stood centuries ago has since changed its course. Arab tradition is abundant in legendary sites. At Kufa they will show you the spot where Jonah was cast up by the whale. Ur is the birthplace of Abraham. Birs Nimrud, which Herodotus included in the perimeter of Babylon, is pointed to as the ruins of the Tower of Babel. One can see it from Hilla, a rugged mound dominating the landscape, rising from the debris at its base. Sir Henry Rawlinson discovered from inscriptions on the spot that the ruins were once the famous Tower of the Seven Planets built by Nebuchadrezzai II. (604-568 B.C.) upon the site of an ancient temple.

In Mesopotamia the flood legend is easily credible. The land between the

two rivers must have often been completely submerged. There have been historic deluges. The provident putriarch who saved himself and his family and his flocks and herds in the prototype of the craft familiar to us on the Tigris to day would naturally consider himself divincly conselled and transmit to posterity the legend of the favour he had received from the gods. It is an older story than Noah. The earliest Bahylonian account of the Deluge comes frum Erech, the home of Gilgamesh, somewhere between 4000 and 2100 h c. The tablets recording it were recovered from the library of Ashurbanibal in the ruins of Ninesch.

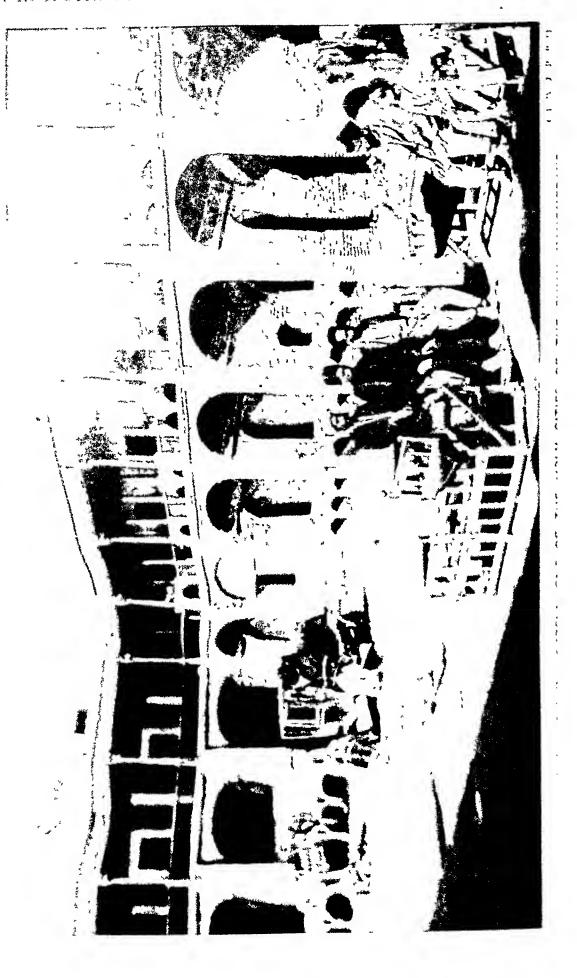
Most of us who know Mesopotamus have tried to reconstruct the scene of Babylon from the picture of modern Bagdad, which is described cleacher. Prubably more of the features and habits of antiquity survive here than on the sites of most buried cities. The chief houses on the river front are built on

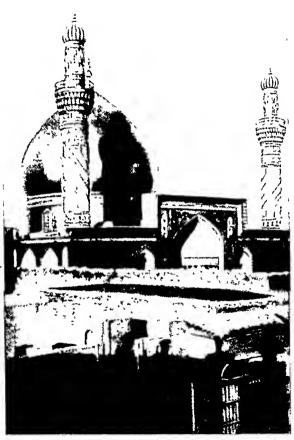
immensely solid revelments and have their foundations in the water, mostly in the form of bastions-the protective wall of Nebuchadrezzar. Many of them have small gardens and steps running down to the Tigris. The approaches to the river, narrow tortuous alleys, lead in some cases through arches under houses to the steps where the women fill their pitchers, like the hundred streets with the hundred brazen gates on the river front described by Herodotus at Babylon. Here the boatmen still ply for lure and the water-carriers fill their skins which they load on the backs of small white asses

The "gufas," the round cauldronshaped coracles of the Tigris and Euphrates, are the oldest river craft in existence. Herodotus has described them, "round like a buckler and freighted with casks of palm wine". He tells us how they florted downstream from Armenia, each with a live.



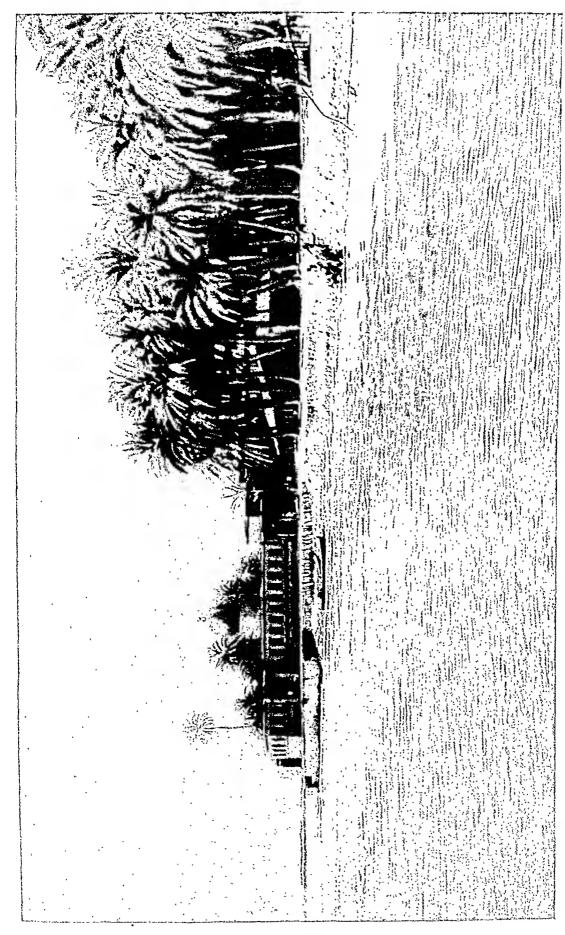
HOUSES PULLED DOWN IN MOSUL TO WIDEN THE ROAD Mosul, the capital of the valued of the same name, is stands on the Tigris, 220 miles north of Bagdad, and was-formerly an industrial centre. The streets are narrow and undrained, but steps are being taken to provide good thoroughfares within the walls. The town was famous for its mustin but little of the textile industry remainsn, the chief tradet being tanning and dyeing



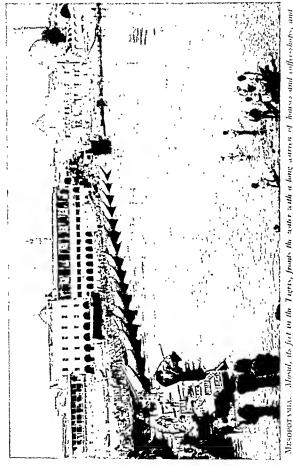


MISOPOTAMIA Golden domes, and bright minarity whose glazed tiles are a lost art, announce Samarra from afar to the Shiah devotee

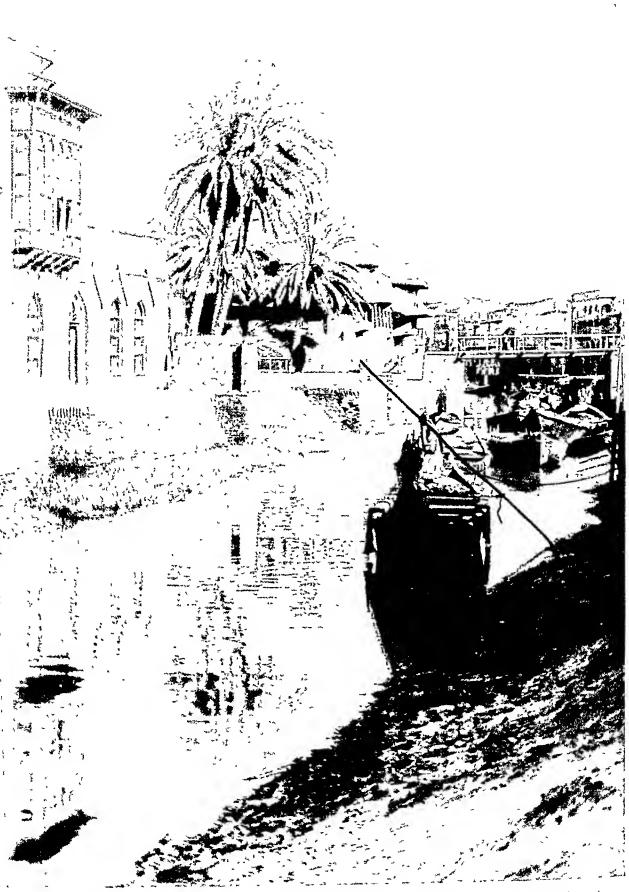
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Mesopotamia. Kurna stands where Tigris and Euphrates join. On a bend of the Tigris above the town is the fabled tomb of Exra, at whose blue-tiled dome among the palms many bands of pilgrims halt



let in the Tigers, fronts the water with a long warren of houses and coffee-shops, and from beside a reamy caracanserus a bridge of bouts leads over to the sestem bunk Mosul, its



Musopotamia. With the river separating it from the vast mounds of Ninewch, Mosul spreads about a maze of creeks 220 miles north of Baydad



MISOLOTAMIA Houses of Kerbela, a holy city of the Shiah seet, ha cando ted balconies supported ou rough-he in wooden pillars or "bali"



Mesopotamia. Stars of gold in a ceiling of blue once gleamed beneath the brick vault of the Arch of Clesiphon. Here Chosroes I., who ruled the Sassanian empire in the sixth century, gave audience to his subjects

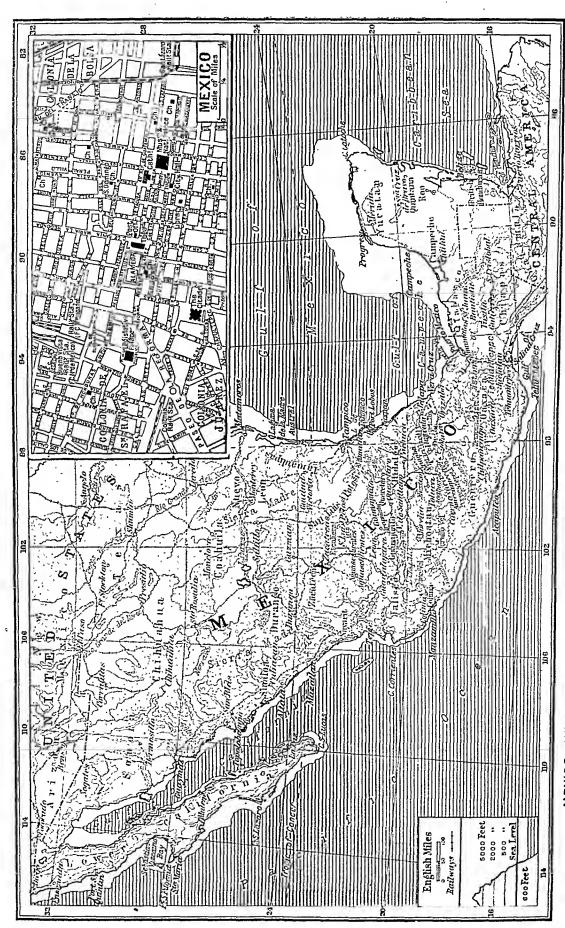
MEXICO The caperists and many arched aguidust at I. Remedi. mear the Lene of Led. splended tributes to the lasting, corks exceed by the 4d Spain bet input tellers.



Mexico. Seen from the church in the village of Ozumba the snow-mantled shoulders of Popocatepett, the "smoking mountain" of the Actecs, thrust themselves above the misty crests of the intervening ranges

MEXICO The Land of Eternal Spring

by Stephen Graham



ISTHMUS Y A 9 A CONTINENT MEXICO, WHERE NORTH AMERICA NARROWS DOWN FROM

whole body of the country. It is 1.070 nules long, the northern boundary being the U.S.A., the southern Grittinal and British Honduras. The actual boundaries are political rather than geographical

Nevertheless, in disputes between the Umited States of America and the Mexican Republic, it is common to refer to one country or the other as broadening out in the northern states of the republic

The approach from the ser coast to the hight of the plateau is in general very steep and again, the approach from the high plans to the mountain heights a slot rapid. On a broid level plateau 7,000 feet above see level the great volcanoes. Popocatepat and frtreculumd lift themselves sheer to 27,520



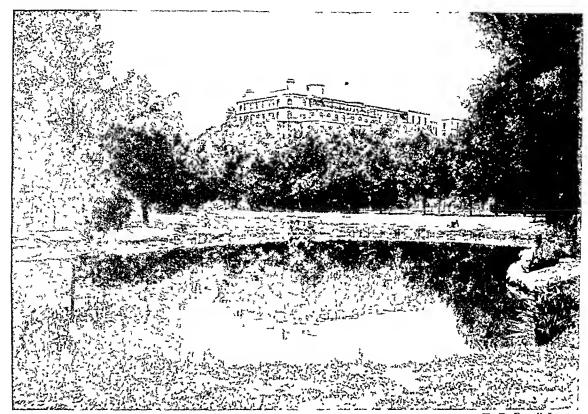
MEXICO CATHEDRAL, GREATEST CATHOLIG FANE IN THE NEW WORLD In the Plaza Constituted in of Mexico district the date of the Artice war god's temple stands this cathodral—a sonor consoliument of the falls of Corfeit the Cathodra conjugers; where splent it arms are sought to of interate the memories of the hidrous pages rise scrittered in the temple's size of sarriface flequinin 1273 the Great church with his zer foot from home was not completed until 1270.

"beyond the Rio Grande," the river which divides Texas from the Mexican states of Chilimphua, Chalimba, Nicco Leon and Tamanhpus

The great Mexican tableland is estimated in \$1,500 miles in length and 530 miles in breadth at its widest point, and its mean altitude is about 6,000 feet above sea level. From the level of this plateau rise certain remarkable mountain chains and peaks. The Sterra Madre, a continuation of the Cordilleras of Central America, trend north-westerly from the isthimus of Tchimuticose to Southern Arriona.

fect and 16 200 fect above the sea and stand there like gigantic saturals of the capital. The greatest mountain of Nexico is the majestic Orizaba, 18,240 feet, one of the most beautiful mounrums of the world, sacred to the Aztees and to their duty Outzalenat!

In such a land of mountains one might naturally expect many rivers but in this Mexico is disappointing. She is notably deficient in rivers. The Rio Grandle, 1,800 miles long, flowing from Colorado to the Gulf of Mexico; and often seeming to love itself in the desert, is the longest river, and despite its fine-



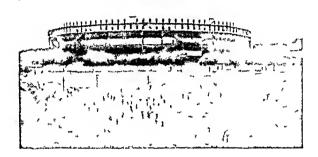
CHAPULTEPEC CASTLE, RESIDENCE OF THE REPUBLIC'S PRESIDENT

About two miles south-west of the metropolis at the end of the Paseo, Mexico City's beautiful driveway, the Castle of Chapultepec crowns a high bluff known as the Hill of the Grasshopper. Completed in 1785, on the site of Montezuma's summer palace, it was later much beautified by Maximilian, who is also responsible for the planning out of the lovely gardens in which it stands



BANANA PLANTS FRINGING AN IRRIGATION CANAL IN SINALOA

The Pacific state of Sinaloa is somewhat isolated from the rest of Mexico by the high mountain wall of the Sierra Madre Occidental, the vast mineral wealth of which has made nuning the chief occupation of the inhabitants. Agriculture ranks second and thousands of cattle are reared on the pasture-lands, while in the fertile calleys cotton, grain, rubber, tobacco, sugar-cane and bananas are produced





MAIN STREET IN TAMPICO MEXICOS THRIVING SEAPORT

I de explication for the fields Taggi Lax saiding grow his portage. He sale he riberts of the trole from the filter of the fields a confer as for water was with an excellent and leep fair unoistical pleases of state for the filter of the fields.



unpretentions one stores of buildings. A railway running from Puerto Mexico, on the Gulf of Mexico, passes through the town to Salma Cruz, a short distance away on the Pacific coast, and is responsible for the disappearance of many of the quant customs and costumes which were in vogue while Tehuantepec was shut of from the outside world. The inhabitants belong to the Zapotec tribe of Indians, a peaceful, enlightened, healthy people, who are chiefly engaged in cotton werving The town of Tehnantepec, on the 1sthmus of the same name, the narrowest part of Meyeo, 1s a strange, tumble-down, straggling place, chiefly composed of

sounding name, is but a poor and shallow stream most of the way. The waters of most of the rivers are either lost in the deserts, or descend tumultuously to the sea. As a consequence of this type of river and of the prevalent surrounding desert, irrigation is greatly practised Indeed, the American Indian tribes were pioneers in irrigation, and taught the art to their Spraish conquierors. Soils of great fertility are found in many parts of the country, and even the desert can be inside to respond in a remarkable way to artificial water-course.

The south is much more fertile than the north, a fact that accounts for the unexin distribution of the population Cortés found several milhons of people settled in the south, and those pioneers who struck north, Coronado and his band, found but thinly peopled regions

A Natural Sanatorium

The same grouping is noticeable todry. The couth, by virtue of its soils and their ferthity, is grarity suited to human evilibration. The climate at the same time is an almost perfect one all over the country, evcluding the constal regions, the "tierras calientes," which are extremely hot and fever-stricken. But these latter regions are narrow and it is only modern commerce, such as the oil business at Vera Cruz and Tampico, which has caused them to be densely populated.

Mexico is an excellent country for those suffering from tuberculosis, or rheumatoid affections, and has been greatly resorted to by victims of these diseases If there are few sanatoria, it is due to the fact that Mexico is backward in civilization. But the whole plateau could be regarded in the light of a natural sanatorium Everyone is lightly clad all the year round, except at night, when warmer clothes are necessary The Europeans and Americans commonly wear linen or silk clothes. or "Palm Beach" suits Pneumonia, however, especially at high altitudes. is a serious cause of mortality. Colds are especially dangerous in Mexico city, and on medical advice patients generally seek a lower level at the health stations of Cuaulitla and Chernavaca

The diurnal variation of temperature is very considerable in most parts of Mexico Thus in winter in the capital the temperature which may have reached 70° F in the day may drop to 32° in the following night. A drop of twenty or thirty degrees is not uncommon

Storm-bearing "Northers"

Winter is the dry season, summer the wet. But continuous rain is seldom experienced. The prevalent wind is southerly and accompanies equable, warm weather. Serious disturbance is, however caused by the Northers, which sweep across the Gulf of Mexico bringing storms on the corst and chilly weather hundreds of miles inland.

The far south alone is subject to tropical rains, and it is naturally only there that the surface of the land is covered with rank vegetation. Jungle has overgrown the ruins of bygone evaluations. Hidden in the dense scrub of Yucatan and Campoche extraordmary ruins have been found.

Secrets of the Sucatan Jungle

It is thought that from the peninsula of Yucatan to southern Guatemala there may have existed at some time a chain of cities belonging to a great but forgotten empire Whether the abandonment of these places was due to war or to a great climatic change has not been established But obviously at the time when they flourished the jungle must have been very considerably less and intercommunication must have been easily possible Trees innumerable now grow through the floors of their temples and halls Some history has been preserved in the form of the hieroglyphics on the walls, but little progress has been made in deciphering and interpretation

Man's kingdom has given way to the vegetable kingdom. Here in the south flourish especially the maliogany and other hardwood trees, also the figtree, wild vines and trailing creepers MEXICO 2748

innumerable. South and east of the isthmus of Tehuantepec is almost uninterrupted jungle. The progress north of the isthmus is a progress towards a completely arid desert. Stately pine-trees clothe the middle slopes of the Sierra Madre as far north as latitude 22, north of which vegetation tends to be almost confined to the cactus and the palm. There is an extensive area of grassland in the central plateau.

Trees Two Thousand Years Old

Among trees, the most characteristic in Mexico is the Ahuehuetl or Mexican cypress, "Taxodium distichum," of which some living specimens are said to be over two thousand years old. The Tree of the Dreadful Night in Mexico City and the great Tree of Tule are both of this species. Characteristic also of the south of Mexico is the bougain-villea, a climbing shrub which flourishes in great profusion, shedding a mantle of crimson on old trees and houses.

The banana palm, which is such a feature of the landscape, is not indigenous to the soil, but was brought by the Spaniards from the Canary Islands. There are five or six varieties in Mexico, of which one may mention the long and yellow "plantain," the short yellow "dominico" and the fat red "morado." The sugar-cane was also imported from the Canaries and is very successfully cultivated.

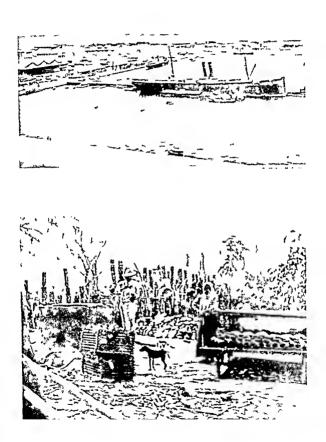
industry. Excellent tobacco is also raised, though the Mexican cigar is inferior to that of Cuba and the Mexican cigarette to the Virginian.

The present inhabitants of Yucatan derive their living almost exclusively from the growing of henequen or sisal hemp. Campeche is noted for the logboow and other dye-woods. tree Chiapas is the home of many rare orchids amongst which is the much-In Tabasco rubbersought citrina. trees flourish marvellously, and the state possesses vast plantations of them interplanted with coffee and Fruits of all kinds, from the orange to the alligator pear, are found wild in Mexico and are also cultivated. Strawberries at places like Irapuato are plentiful all the year round. Venders of cheap strawberries swarm on railway platforms in December. Medicinal herbs are raised in great quantities, the Indians having great knowledge of them.

Drink from the Cactus Plant

The strangest vegetable product of Mexico, both wild and cultivated is, however, the cactus. There are several hundred varieties and some, like the organ cactus and the candelabra cactus, are tall and beautiful. One species at least is worshipped, the Echino cactus. The commonest species is the magney, called sometimes in England the century plant; in Mexico it also takes long to

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MEXICÔ 2750

the large holdings have been cut up and distributed among the peons. This is causing some decay in the sugar industry, united control over large areas being more efficient than cultivation in small parcels. Moreover, the new petty proprietors are giving up commercial agriculture, cactus and sugar and tobacco production, for grazing and corn-growing. Irrigation is a more complicated matter when applied to small holdings, and is not as effectively used as on the great estates.

Fires of 150 Volcanoes

Agriculturally, Mexico presents great possibilities. Geologically, however, her potential wealth is much greater. In a very remarkable country the rocks are perhaps most remarkable of all. As the continent of North America narrows towards the south we obtain a most spectacular rock concentration as if earth and ocean had made war there. And the fires of a hundred and fifty volcanoes lend colour to the idea.

Geologically the mountains of Mexico belong mostly to the primary or paleozoic age. The primary rocks appear in the west, where they form part of the peninsula of California, and also in the western system of the Sierra Madre and those chains parallel to it, that is to say, those chains orientated northwest to south-east. They appear also in the south-west and form the mountains of the state of Guerrero, the massif or dominant central mass being orientated almost due east and west.

Natural Castles of Porphyry

Between these two systems there exists a connecting chain in the shape of the cliff ranges of the coast of Colima, forming various promontories, and among them Cape Corrientes. This chain is in part composed of primary crystalline rocks, namely, granite, gneiss and crystalline schists.

The crystalline primary rocks of the north-west are in some regions covered with volcanic rock of a later date, some with basalt and lava, others with porphyries. The mountain chains of Bernalejo and of the Escaliera at San Luis Potosí, crowned in places with huge masses of porphyry, are most picturesque, reminding one of castles of the Middle Ages.

The secondary and tertiary strata found in Mexico are a continuation of those in Texas, and it appears that in the secondary and tertiary ages there must have been there an immense depression, having its centre in the Gulf of Mexico. The secondary formations belong mostly to the chalk period, containing great quantities of clay and chalk. The tertiary formations belong to varying periods of the Eocene and Pliocene, and contain sandstones, sands, limestone, etc.

Enormous Mineral Wealth

Mexico has one of the most important centres of volcanic activity in the world, that of the central plateau of Anahuac. One series of volcanoes starts with Popocatepetl near the capital and finishes with the isolated volcano of Tuxtla, near the isthmus of Tehuantepec. Another includes the Jorullo, the peak of Tancitaro and the smoking and steaming volcano of Colima. About this series of volcanoes is a vast volcanic region called "mal pais," the bad lands. Until 1759 the Jorullo region was a rich farming country. But in September of that year there was an extraordinary eruption, and the volcano raised its height by 1,700 feet.

Eighty per cent. of the area of Mexico belongs to the mining industry. It has the greatest production of the world in silver—36 per cent. of the total world production. It is second in its output of oil, fifth in its output of gold, first in its output of opals and other precious stones. But it is also rich in copper, in lead and mercury, in zinc and antinony, in iron and anthracite, in turquoise, emeralds, topaz, jadeite.

The greatest gold-mine is in Mexico State at Real del Oro. The greatest silver-mines are in San Luis Potosi, Chihuahua, Guanajuato, Zacatecas.



SELLERS OF NATIVE POTTERY ON THE ROAD TO MARKET

The potter a set is well devel ped and I we many levotees in Mexico thus perpet atin, an artist, a trie tradition. Many a town his is soon individually assessed in the many time colour and design and ranging from vessels of the a thanna type to the face themeo. Curinavaca Gui aliupe Acusteal etc. and Guidalagar are une important centres of the individuals.



SUNSHINE AND SHADOW UNDER THE ARCADES OF PROGRESO

It is green lies on the Gulf of Mexico 24 unles to it is morth of Merd's the busy capital of Yucatan and
possesses all nost if entire traile of this manitumestate. The accades or portales over it is side walks
form a distinctive feature of the plazas it Western towns. Under them many of it ones attractive
stores we established an it be provide griefful sighter to many interant pediars on hot days

MEXICO · 2752

Durango, Sonora. There are important gold-mines in Oaxaca.

The Spaniards in the sixteenth century took over the Indian mines and placer workings, and of course opened up many new workings, but it was left to the nineteenth century and Anglo Saxon enterprise to introduce mining on a large scale. It has been said by one of Mexico's presidents that while Mexico is the richest country in the world her population is among the poorest. This is largely true, but it is because the Mexican has yielded to the foreigner the exploitation of the immense resources of his country and appears in it himself merely as a labourer

Mexico's Need of Security

Various attempts have been made to adjust this inequality of benefit by taxing the foreigner and restricting rights in subsoils. But while this may have helped to fill the state treasury it has not made any appreciable difference in the general poverty of the Mexican people.

There is a vast field for future exploitation in Mexico, but development is retarded by the general insecurity consequent upon civil strife, the proletarian movement and an antiforeigner sentiment and policy. With security Mexico would be bound to make extraordinary progress in mineral production.

Occupations of the People

It is estimated that half a million people are employed in mining, a figure which greatly exceeds that of all other industrial occupations. remainder of the population is still largely engaged in agriculture of a primitive kind. Many earn their living in cotton and sugar and cactus plan-The coffee and tobacco tations. industries employ many thousands, bananas and oranges are extensively cultivated and the collecting of chiclegum and the cultivation of rubber are notable in the state of Tabasco. Fishing is greatly developed in the

coastal regions, especially in the Mexican Gulf. But though game is plentiful in the jungles of the south there is comparatively little trapping or hunting.

One of the greatest industries of Mexico is that of pottery, in which art the Indians excelled before the Conquest. Many of their secrets seem now to have been lost, and in any case the production is generally of a rougher kind than formerly. Puebla, Cholula, Guadalajara and Guanajuato are specially famous for pottery and tile-making. Another strongly developed national manufacture is that of the sombrero, the Mexican hat. And again, there is the manufacture of Mexican saddles, harness and spurs, all of a local type.

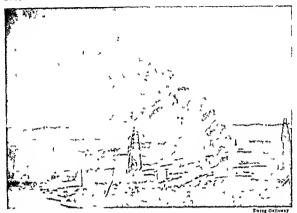
Mexico knows as yet very little of manufacture for export. But tobacco factories number about 1,320; cotton mills, 140; and there are 12 oil refineries at Tampico, Port Lobos, Tuxpam, Vera Cruz and Minantitlan. European standards of management obtain at most of these factories, but there is a strong ferment of proletarianism and strikes are very frequent.

Prevalence of the Local Market

Internal commerce in Mexico is on a primitive level. All the towns, even small ones, have large market-places to which the country populations swarm in with panniers of pots on asses and stacks of sombreros, sacks of medicinal herbs and all manner of foods and petty manufactures. There is nothing in daily need which you cannot buy in the market. For the rest, American and German and South American importers make steady progress in the import of their national products and manufactures, giving to certain large cities like Mexico and Vera Cruz the common appearance of Western civilization.

While the Mexicans are not a rich people there has sprung up in the capital a fairly extensive class living in fine villas, dressing ostentatiously and parading in fine cars. These are mostly manufacturers, importers, successful politicians of the day and, one might

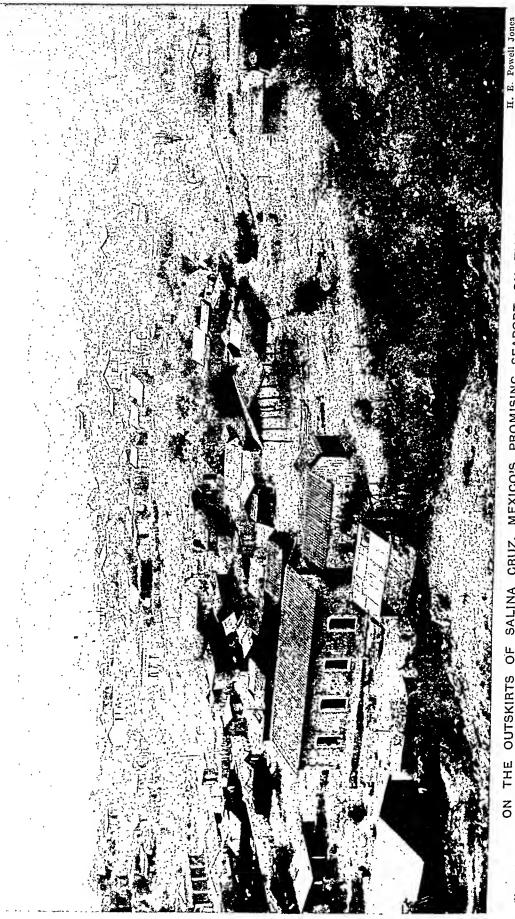
MEXICO



FIRES ON THE AMATLAN OIL FIELDS IN THE STATE OF VERA CRUZ
The ill feller Mexico are at you then extrip retrict the will. The chief felde we found in the
cost lain soil it is call it! Netwook after it is the which are been used by the matter from time
finner mid. In the call it is the control of the chief felde were
for wells in the reputit is that in the predict on it follows burels.



FLOWER MARKET ON THE PLAZA MAJOR OF MEXICO CITY
Perhaps the most p cluresque of the sarso a street senders in Nevico are the flower sellors whose stalls
in the plazas even in mod waiter are lavishly adorated with a weith of lovely bosoms from the tropical
veloys and huge I makes of crarations violets and roses may be bought delightfully chery. The
medical Actees were passionately fond of donest, their descendants I vive inherited it le hiding



H. E. Powell Jones Since the railway crossing the isthmus of Tehuantepec from Puerto Mexico to Salina Cruz has been completed, the latter town has undergone a startling transformation. Little more than a straggling Indian village when the line was first begun, it is now a progressive new town, with finely-built houses and many instances of modern convenience and comfort. In the excellent and well-equipped harbour trains run up to the ships' sides, where up-to-date devices economically transfer eargoes to ship or train. Above is seen a section of the lower spurs of the Sierra Madre behind the town OF SALINA CRUZ, MEXICO'S PROMISING SEAPORT ON THE PACIFIC COAST

add, popular bull fighters. Wealth is the only sure indication of social status. Thus the professional people, being poorer than the bourgeois, are lower in status. Neither Invgers, doctors nor teachers are at all highly rewarded for their services.

Mexico is connected by rail with the United States via Laredo, Ll Paso and Nogales, the three chief frontier towns of the north Under peaceful conditions there are through carriages from Chicago to Mexico City, but during the many revolutions communication tias frequently interrupted leen commoner approach for Luropeans is by steamship to Vera Cruz This port is conveniently reached by boat from New York, many European passengers choosing to make the voyage in a comfortable liner to New York, thence transferring to another boat bound for Vera Cruz, via Havana The voyage from New York generally takes eight days and the fare is about a hundred dollars. But there is also direct communication with Spain, France, Germany and Lucland, which, however, is generally slower and more expensive than transhipment via New York

Trains Slow and Unsatisfactors

As regards communication with South America this is generally effected by consting steamers plying from the Pacific ports to Pananri and there transferring to South American liners

There is cable communication to most prints of the world by the Compañía Telegrafica Mexicana Wireless is used little The internal telegraph bines are under government control and are cheap and efficient Telephone service is to be found in the larger cities

Thanks to various enterprises of foreign companies Mexico possesses a fairly extensive railway service. Nearly every town of any importance is connected with the capital by rail. The speed of the trains is, however, slow, the carriages afford but little comfort, and, as a result of continued inattention during years of turmoil, rolling stock is

in a bad state and most lines relatively unside. Accidents used to be run but are now rather frequent. The railroad routes are in the south-east and south very spectacular especially the lines from Mexico City to the sea and well worth traversing for the views along

Possibilities of Isthmus Traffic

Phoes not reached by rail are generally accessible ou horseback. Horses and servants and prek-horses are easily and inexpensively lured in most parts. Women, it should be said are seldom seen on horseback. Carriage driving in the provinces in carriages without springs is an arduous performance lew roads are suitable for motor cars. Air services have not yet developed anywher and aeroplanes are but seldom seen. Nevertheless many regions are admirably smited for exploitation by presenger air service.

Economically the most important region of transit is the istlimus of Tchinnitepee which has considerable possibilities of inter occurie traffic be tween the port of Solina Cruz on the Pacific side and that of Pierto Mcvico on the Atlantic side. A railway connects the two and competes in a small way with the Panama Canal for freights, but owing to the disorganization of the whole country little progress is inade Internal transport of goods is effected cheaply by rail, but assess-and picktrains are more commonly used

Substantial, Stone-built Towns

External commerce is cluefly with the United States The average value of exports is about forty-two millions sterling, of imports about forty nine millions. Over go per cent of this trade is with the United States

Of Mexico it may be said that its cities are American, its towns Sprinish its villages Indian Considering the primitive state of the bulk of the people there is a liph level of architecture. It has many fine stone-built cities and towns Even the houses in the villages are substantial—at least in the south

MEXICO 2756

In the deserts of the north the somewhat wretched mud or "adobe" built villages predominate.

The towns are mostly of houses built in the Spanish style, with patios, internal gardens and fountains, overlooked by balconies. In the cities the American steel building is springing into being on the sites used previously by Aztecs and Spaniards. Sanitation under American supervision makes progress in the great cities. The Mexicans take great pleasure in public gardens which, in all their towns and cities, are cultivated with rare taste and care. Very healthy conditions prevail both in town and country, due rather to excellence of climate than to hygienic living. For the native population is remarkably dirty and children badly cared for.

The chief cities are Mexico City, Puebla, Guadalajara, Vera Cruz and Tampico. Mexico City, the capital of the country, is built on the ruins of the prehistoric capital. It is preeminently suited to be a centre of government and civilization. Undoubtedly it is one of the most remarkable cities of the New World. Here American, Spaniard and Indian have expressed themselves equally.

The central point of the city is the Plaza de la Constitución (Zocalo), the square where rose the blood altar of Huitzilopochtli, a pyramid built of stone intermingled with gold and gems and surmounted by the ponderous "Stone . of Sacrifice." This was destroyed by the Spanish soldiers in quest of spoil, and on its site stands a Catholic cathedral and, facing the approaches to the pyramid, the administrative Near by is the ancient exercising ground of the Aztecs, now a thronged Indian market. The Zocalo has also become a terminus for all the trams and buses of the city.

The finest modern building in the capital is the Grand Theatre at the end of the Alameda Gardens, a magnificent structure commenced by Diaz. For the rest, American skyscrapers and modern business buildings mingle with tiledwall buildings of the Spanish colonial time. There is a high standard of luxury among the rich business people and appalling poverty among the Indians. Bull-fighting represents the greatest popular interest other than business. Of the other cities Puebla is first in interest as a stronghold of Catholicism and the Spanish tradition.

MEXICO: GEOGRAPHICAL SUMMARY

Natural Division. A land of three levels; the larger, the middle plateau, the "tierra templada," more than a mile above sea-level; the plateau edges, the coastal lowlands, the "tierras calientes"; and the high mountains and their slopes, the "tierras frias." With Central America, q.v., a meeting place of continental highlands, the Rockies from the north and the Andes from the south. Anciently for the most part the north-west corner of the former continent of Antillia.

Climate. The climate is due to latitude, shape and elevation. By latitude the climate from north to south passes from the hot dry desert (cf. Sahara) through the region of summer rains (cf. Sudan) to that of constant rains (cf. West African Guinea Lands). By shape the southern narrowing permits modification by oceanic influences. By elevation the range of climate passes inland from hot to temperate, and then to cool highlands.

Vegetation. Desert cactus and palm. Small strips of tropical grass-land (cf.

Sudan and Orinoco llanos). Jungle forest, logwood in Campeche.

Products. By origin and by relation to volcanic activity highly mineralised, Mexico produces silver (one-third of the world's supply), gold, copper, iron, lead, zinc, coal, salt, petroleum. By climate Mexico is suited to the production of coffee, cacao, oranges, bananas, tobacco, chiclegum, logwood, rubber and sisal hemp.

Outlook. Three forces are at work—the ancient traditional civilization, the modern remnants of the grasping Spanish exploitation and the pushful energy of the commercial magnates of the United States. The first two combine to produce unstable economic conditions, reflected in the political situation and the failure to produce from the split-up haciendas the former flow of agricultural products; and the third fails to secure unity of effort and satisfactory organization in the modern exploitation of mineral wealth or products of the soil. Hence an unsettled outlook.



10 In the village of Ozumba both the gaten av and the church uself exude a depressing almosphere of decay and neglect Mexico 2757

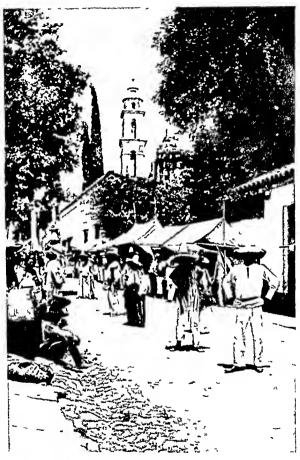




Pilgrims on the sacred mountain gaze across the city of Amerameca overlain by the pearly must of dawn, towards the pointed snow peak of Popacatepett blushing before the riven sun



Mexico. These blanketed cavaliers with their sombreros are Mexican soldiers outside La Veritá on the road to Mexico City 2760



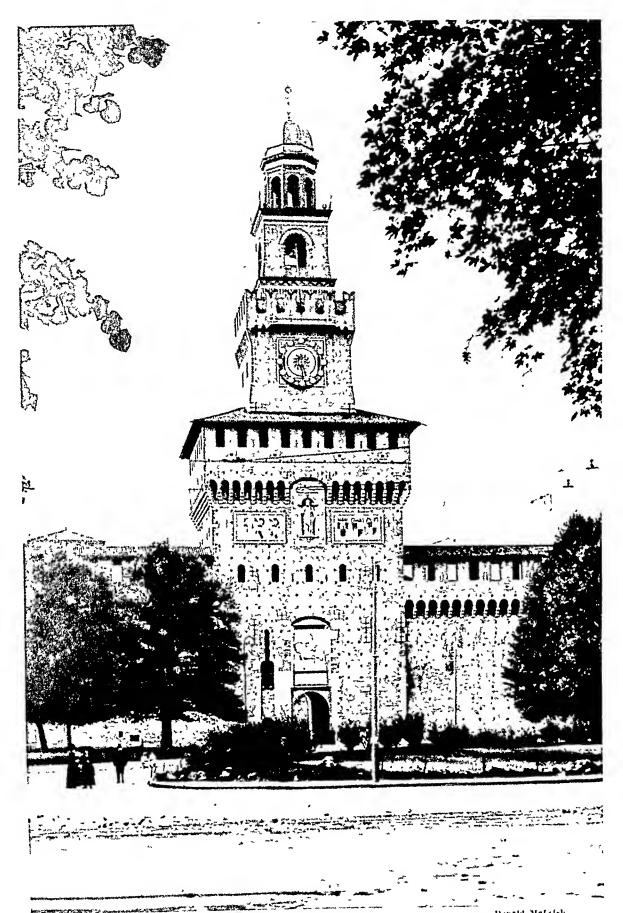
Mexico The main street in San Intone basks under the trees in the sun flooded ralley of Cuernaraca on a fiesta day 2761



Mexico. Firewood is brought down on donkeys from the upland forests of pine and oak, such as that of the El Desierto reserve 2762



MILAN Marble statues upon slender punnacles, perched dizzily above the Victor Emmanuel Gallery, adorn Milan Cathedral 2763



MILAN. Machicolated and loopholed, the grim Castello Sforzesco no longer threatens musketry, but opens its gates as a museum 2764

MILAN

Industrial City with Historic Past by J. A. Smelhe



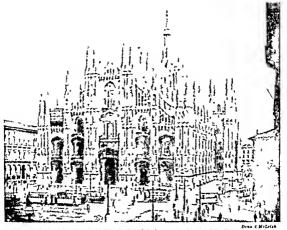
STREET PLAN OF THE BUSY CAPITAL OF LOMBARDY

appoint architects and engage builders who should raise the cathedral that was to be a wonder of the world.

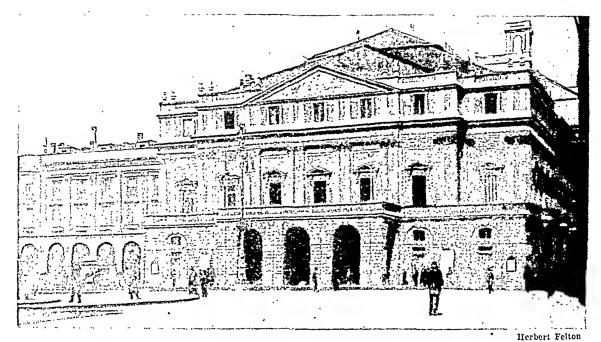
But it was when that soldier of fortune Francesco Sforza, at the head of his band of "condottiere," rode into the city, now so weary of the three years of the Golden Ambrosian Republic that followed the last heirless Visconti, that Milan's golden age began. She now ranked as a peer with the Florence of the magnificent Medicis and the republican Venice of the Doges. Ludovico, "the Moor," and his girl-wife Beatrice d'Este, following in the line of the Sforza dukes, held sway when the city was touching the zenith of its glory. Milan became famous all over the civilized world for its silk-stuffs, and its mulberry-growers were drawing in a harvest of wealth. Its merchants and middlemen were making fortunes in the entrepot trade with France and Savoy.

Art and literature flourished within its walls. Bramante, that prodigious genius of architecture, came from Urbino to crown the cathedral with its octagonal tiburno, and Amadeo from Pavia to raise the lance-like spire above it. Leonardo da Vinci, too, quitted the Florence of Lorenzo il Magnifico to adorn the city with his masterpieces and the court with his wit.

The Castello Sforzesco, a great stronghold built on the site of the Visconti's citadel, was agog with an army of scholars, doctors and humanists. The beautiful Ospedale Maggiore was built as an asylum for the poor and the sick; palaces, such as the Reale and della

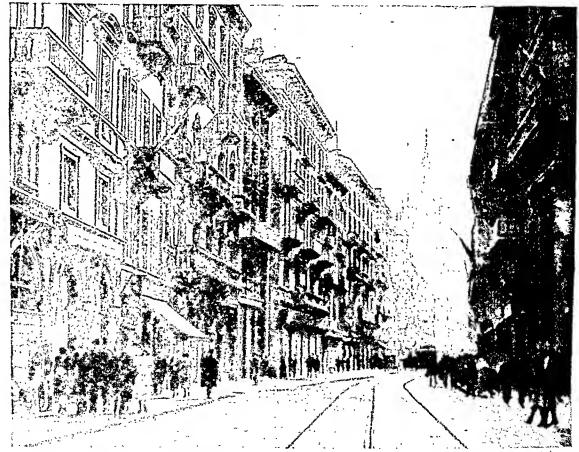


MILAN'S WHITE-PINNACLED CATHEDRAL. A MARVEL OF THE WORLD When in her the Viscouth, the Lad Finca del Duomo her in work on their clutch in 1746, then had little like that it was to be completed in the manner which the later builders of the Remainsance evolved. Overlaid without literating and a funcil by 2000 stature, it stan is at the very heart of the city, a wonder of I unope and a magnet that draws thousands to see it.

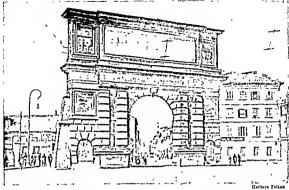


MAIN ENTRANCE TO THE FAMOUS SCALA OPERA HOUSE

The Teatro alla Scala, standing on the north-west side of the Piazza della Scala, is the largest theatre in Italy, after that of San Carlo at Naples, and was erected in 1778. For many years it has been one of the great European centres of the opera and the ballet and numerous famous works have been performed for the first time on its historic stage. Its season is an annual winter occurrence



LOOKING DOWN THE CORSO VITTORIO EMANUELE TO THE CATHEDRAL Some of the lest and large to hope in Milan are found in the Corso Vittorio Eminuele, which, handling off from the north-east side of the cathedral, runs into the Corso Venerca leading to the Gradus Publicia, one of the finest public parks in Italy. In the background can be seen the wills notice of the eathedral, riving high above the heterogeneous buildings of the piazza.



WHERE THE ROME PJAO ENTERS MILAN: THE MEDIEVAL PORTA ROMANA From the Piatra del Quotoo, in the heart of Milan, the trainway his e runs due south down the Via Carlo Alberto, and then turns south-en't into the Coreo do Peria Roman. At the extremity of this long straight theroughfare stand, the Porta Roman, a fine old gateway that was built into the structure of the inclused a walk guarding the city of the Versoult and the Stora due to the control of the Coreo of the Roman and the Stora due to the Coreo of the Roman and the Stora due to the Coreo of the Roman and the Stora due to the Coreo of the Roman and the Stora due to the Roman and the Roman and the Stora due to the Roman and the Roman and



VIA TOMMASO GROSSI, SHOWING THE CUPOLA OF THE GREAT ARGADE
The Via Grossi runs from the Via Santa Margherita to the Galleria Vittorio Emanuele, the octagonal
centre of which is seen in the background. The arcade connects the Phazza del Dumon with the Phazza
della Scala. It is considered to be the best building of its type in Europe and contains the most
fashionable cafes and the most expensive shops of the city



Heriett Felien

NAPOLEON'S CONTRIBUTION TO THE CITY OF MILAN

This richly sculptured arch, built of white marble, stands on the north-west side of the Pareo Nuovo. It is known as the Arco della Pace, and was designed by the famous Cagnola for Napoleon I The conqueror of the city originally intended it for the adornment of the Foro Bonaparte, a wide and well planned thoroughfure that is to day one of the main arteries of communication in Milan

music, in the Piazza della Scala. Milan was once more a flourishing commercial city, and once more her walls sheltered a great culture. From then until 1859 when she took her place along with the other cities and states, as a part of reunited Italy, her progress was unchecked, for the Napoleonic disturbances brought no harm to her and only added the great Arco della Pace, in the Parco Nuovo, and the large Arena to her architectural beauties.

In the Milan of to-day, as when Galeazzo Maria Sforza's white-liveried troopers were swaggering through the streets, the hub of the city is the Duomo,

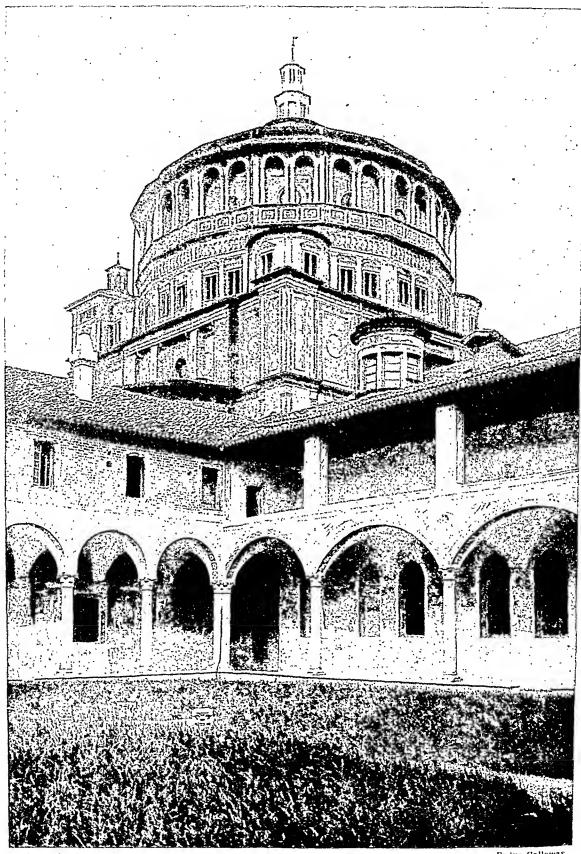
the cathedral, and to-day as then it is one of the sights of Europe. Fantastically sculptured flying buttresses rise from the summit of the outer ramparts to support the milky walls of its nave and transept, and its hundreds of statues look down on a very modern piazza that echoes to the whistles of trams and the din of noisy traffic.

Built while the city's history was undergoing a crystallisation, it fittingly embodies the transition in its architecture; the Lombard beginnings show themselves in the Gothic arches that are crowned by the Renaissance details in the Sforza superstructures.





ONE OF MILAN'S HIGHWAYS OF WATER BORNE TRAFFIC Only of which is a flat on the analysis of the flat of the control of the control of the flat of the control of



Ewing Galloway

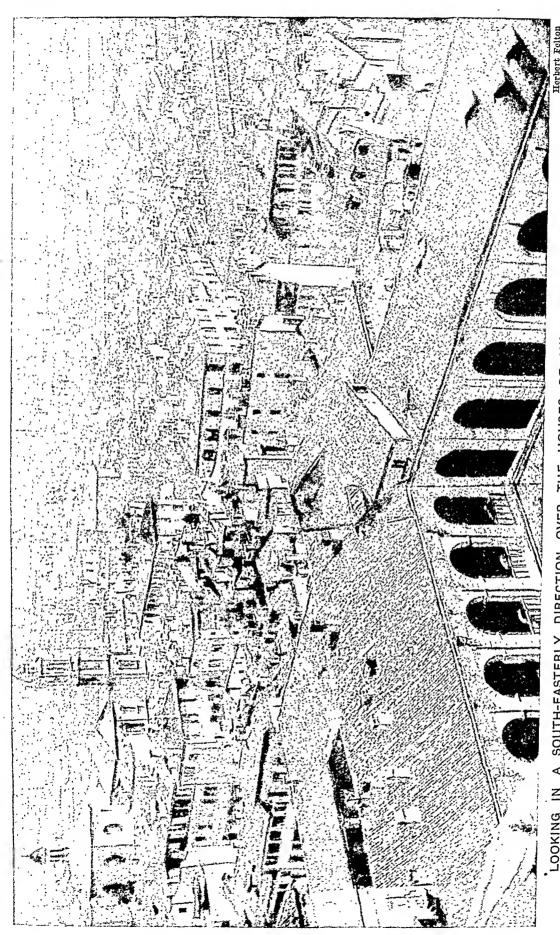
SANTA MARIA DELLE GRAZIE, A FINE OLD ABBEY CHURCH

Tradition has it that a Sforza duke was murdered within the walls of this old church, which was founded in the middle of the fifteenth century. The beautiful choir and fine dome are the work of the famous Bramante, as are the small central cloisters in the old adjoining monastery, where the room that was once a refectory contains Leonardo da Vinci's "Last Supper"

MILAN



SAN SATIRO A PRICELESS RELIC OF THE GOLDEN AGE OF MILAN MILAN Began to assume it of graces of fae architecture and light of its reafter bet warror dukes had made he position unasvilable. Commercial supremency followed and with it a greater interest in art. This little chircle of San Satiro was founded in the ulath century but re-erected by Dramante about 180. The belty and ce post recovered by ulding at the end of the left transpir belong to the original



Milan, the chief city of Lombardy and capital of its province, lies on the banks of the river Olona. Among the large cities of Italy it ranks second, and it is the chief financial centre and the wealthiest commercial manufacturing town in the whole kingdon. This view, taken from the roof of the cathedral, shows the first court of the archiepiscopal palace in the foreground. It is framed by a handsome double colonnade and contains marble statues of Moses and Aaron. The palace, originally built in the fifteenth century, stands in the Piazza del Campo Santo, formerly the cemetery of the cathedral SOUTH-EASTERLY DIRECTION OVER THE HOUSES OF MILAN FROM



MILAN 2776

like the Ciceri and the Garbagnate sanatorium—the latter fourteen miles out of town—have been built for the public service.

Milan's industrial development since the beginning of this century has been most remarkable, and she now takes a leading place among the great commercial centres of the world. Machinemaking occupies thousands of operatives, and there are countless allied industries such as boiler-making, motor-building and bridge construction for which the town is also celebrated.

Textiles and Automobiles

In the manufacture of textiles her greatest interest lies in the making of silk fabrics, for which she is universally known; but the weaving of cotton grows daily in importance, and wool is now spun and woven in considerable quantities. Domestic industries, such as the making of furniture, the printing of furnishing fabrics, the decorative working of leather and the manufacture of electrical fittings bulk large in importance. Automobiles, such as the well known Bianchi, are made in the . district; and their subsidiary and allied trades are represented by the making of tyres-the Pirelli Company is the largest employer in this industry—and electric cables.

Tramways Efficiently Organized

As to internal and external communications the city is thoroughly well equipped. The morning aspect of the Piazza del Duomo would suggest an over-emphasis of the importance of the municipal transway department, but in other parts of the city this means of transport resolves itself into a most efficient and well-organized system, giving easy and rapid access to the different urban and suburban areas.

The transways form one of Milan's most valuable and profitable undertakings, and municipal statisticians have computed that each of the city's 722,000 inhabitants uses the service 330 times each year. Canals, need for

transport and irrigation, abound round the city. By this means connexion is made with the river Po, and with Lake Como, through the river Adda, and by the Canale Grande, through the navigable waters of the Olona, with Lake Maggiore and the Ticino. The work of connecting the city with the east coast at Venice by canal is well under way, and the new port which is being constructed will be equipped with facilities capable of dealing with a large trade.

Railway communication from the exterior is by the Ferrovie dello Stato whose main Turin-Venice line passes through the Central Station, from which also the traveller en route for Bologna and Rome would leave. Lines running to Genoa and the towns of its surrounding district depart from the Stazione Ticinese, and there is a light railway that runs to Como, the lakeside town where many of the more fortunate Milanese find refuge from the heat of the city in summer.

Milan in Summer and Winter

The city, and indeed the whole Plain of Lombardy, is subject to the most extreme weather conditions. In winter the cold is intense, and on an average there are ten days each year on which. snow covers the ground; while in summer the temperature may rise as high as 100° F. Milan in a heat wave is a disagreeable experience for the inhabitants, but for the visitor from the north it is undiluted misery, and he is well advised to plan his visit for the more temperate and equable periods such as spring or antumn, or indeed winter, for at this last period there is an additional attraction in the fact that the social life of Italy's commercial capital is then in full swing.

The Milan of to-day has risen to great heights and looks forward to an established position in the future see stablished because her prospect is haved on the firmness of her commercial foundations and not, as before, on the hazard of military supremacy.

MONGOLIA

Barren Haunt of Nomad Tribes

by Douglas Carruthers

Author of Unknown Mongolia

Till Mongohan platean occupies a forming a diert hinterhald to fertile and populous China on the encland and on the other to the celd sparsely populated but searchy less fertile reasons of Silvera

It is almost entirely high stepps larren and inhospitalle too hot in summer and too cold in winter un attractive for the most part to am but herd men. Mountain walls surround in and add to the sech ion alte dis er ited by its bancful climate its natural poverty and consequently its meagre population.

Thus Mongolin is side tricked between Soute Russia and Clina and its only claim to distinction is that it is the hinne of the Mongols, the residue of a rice which once conquered half Asia and terrorised Lumps. The separateness of Mongolia is still further accentinated in that it has retained in great part its traditional independence. Although paying tribute to Peking the surceinty is only normal for the Mongol chief tains still overrule their claimsinen as in the days of Linghir.

Religions of World Unrest

Although of little account to-day this wild land has profoundly influenced the listory of the world. Its wind swept plateans have bred unrest from time minimenorial. Here windered the Huns who eventually overran Lurope. Here were the Mongol hordes who succeeded in founding a dynasty in China who cretted an empire in India and who by virtue of minense conquests in Asia were able for a time to speak in dominating accents to Europe.

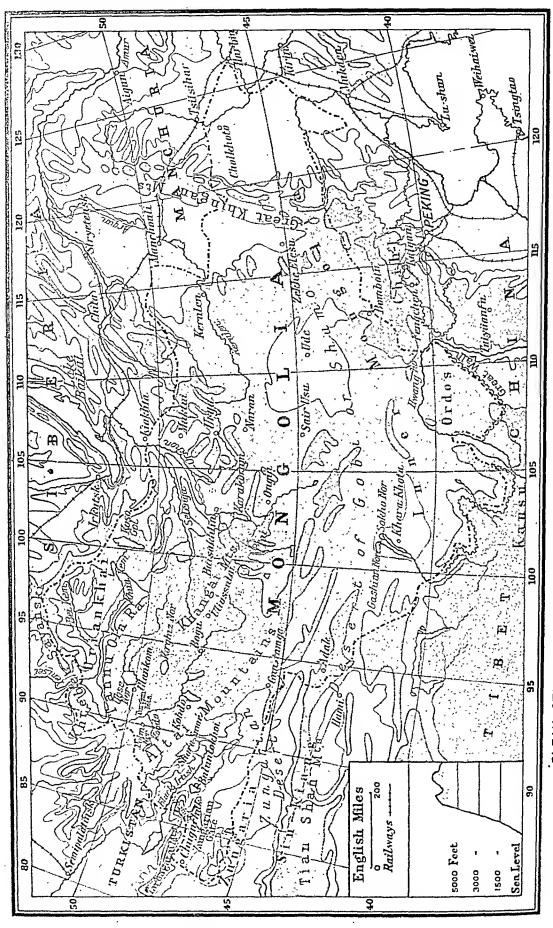
The boundaries of our region are som what difficult to outline for being a neurals. Find tribal limits play a larger part than disso nature, also purely social lines of denarration are high to shift. For instance on the south and cast the virile Clinice encroach on every wildlacers on every people occasion while on the north the load in disances or retreats according to his late the bins.

Boundaries Ill-defned

On the west the deserts of Zungaria and Turki tan allow no natural bound ary but the limits are roughly repreented by the westward outposts of the Monkel Tribes On the south the Chinese province of Kansu and Chili li march with Inner Mongolia as the southern portion is called Peking itself is within 200 miles of this point of the Mongolium frontier North eastwards boundars of Inner Mongolia stretches to the confines of Unnchurin near Manchoult then turning due west it runs for nearly 2 000 miles along the so called international boundary separ ating China from Russian Siberia

This frontier shows up well on the map but it would be difficult to follow in nature. No great physical features define it. It follows small insignificant mountain ranges such as the Sayanski the Little Altai ind the Saur groups at cuts across rivers—the Kerulen the Selenga the great Yensei and the Black Irtish. Across the frontier to the north lies Siberia.

On the west Mongolia merges into the outlying Chinese dependency of Sin Kiang or the New Dominion which includes Turkistan and Zungaria The



FROM CHINA RUSSIA SEPARATE BURNING DESERTS THAT BLEAK STEPPES AND

frontier is man made, runs across nameless steppes, and is not influenced by physical features. Although roughly describing the Mongol limits westwards, the Mongols overlay the Kurghir tribes, and the Turks extrad into Mongols.

The fronter used to follow the watershed of the Great Altan, a fine natural boundary, then souther ist across the western Gobi, until at recled the Hwang ho in the vicinity of Lanchowfu. But the Mongol fronter was later pushed 500 miles western at the following the strategic points—the Upper Irish valley and the Zungaram Gate, the only two

situated at an average altitude of a ood fort above sea level One climbs on to this tableland by passing over the border ranges which use as a wall, though not a high one and enclose the central plateau This applies to the whole circuit except on the west, where the high plains drop imperceptibly to the low sand wastes of Turkistan or the harder steppes of Zungarra. The tableland uself is moreover relieved by subsidiary mountain ranges which rise to altitudes varying from 5 000 feet to 15 000 feet above sea level

These highlands are Mongolia's most important physical feature for not only do they govern the life history of the



D Corruthers

WONDERFUL LAKELAND OF THE MONGOL-SIBERIAN FRONTIER
This is Told half all the sources of the great Member tisser, with its make expanse of clear still
waters its grassy lanks and iterasted islants in the roken shore line of quiet buys and be full promote
tories backed to move of lalls it is a face; possible active. I will kille counter naturous is the fake, but
tools be priedly be retitered encomposents of the Lenashbal, who regard Told half as being served.

feasible lines of communication, by river or rail, between Siberia and Western China.

Luropean maps retain this new demarcation of Mongolia, but Climese officials still administer the region as part of Sin-Kring and in no way allow it the privileges enjoyed by autonomous Mongolia

This area contains about a million and a half square miles, as much as British India. It is 650 miles across from Siberia at Kiakhta to the Great Wall at Kalgin, while from west to east it extends for 1,250 miles from Hami, the last oasis in Climise Turkistan, to Manchouli in Manchuria.

The name Gobi, which means desert, is written large across the whole of this expanse, and indeed the whole of the central portion is and, rolling steppe,

inhibitants, supplying as they do, the best grazing for great flocks and herds, as well as finel and water and shelter in winter, but they also present a most welcome relief to the eye from the endless yellow plans. These mountain groups are distributed over the plateau, but predominate in the north and especially in the north-west. In fact, the whole of the north western corner of the region is mountainous, and holds the principal clars of the last of the Moncols.

Generally speaking, Mongolia can be divided into three zones, each with its own particular aspect. In the north is a land of exceptional beauty, a hiff country of forests and lakes and rivers Across the centre lies the monotonous praine belt—the Mongolia of popular imagination—vast expanses broken only by the tent-villages of the nomads and

MONGOLIA 2780

the slow-moving caravans. On the south is Inner Mongolia, also a barren region, but relieved by highlands and approaching China in some characteristics.

The hydrography of Mongolia is peculiar. Some of its waters flow to the Arctic Ocean, some to the Pacific; the rest find themselves trapped in self-contained basins, while the greater part of the central plateau, which is actually the lower altitude, is waterless in that no streams flow above ground.

Of ocean-going rivers, the Kerulen source of the great Amur rises in the far north-east, in the neighbourhood of Urga; the Orkhon and Selenga, feeders

nomad centres. Of a different aspect are the desert basins in the Gobi, where a little brackish water collects in the spring and perhaps disappears during summer's heat. One lake-bed receives a perennial supply from the snow-clad Tibetan border ranges, namely, Gashiun Nor and Sokho Nor.

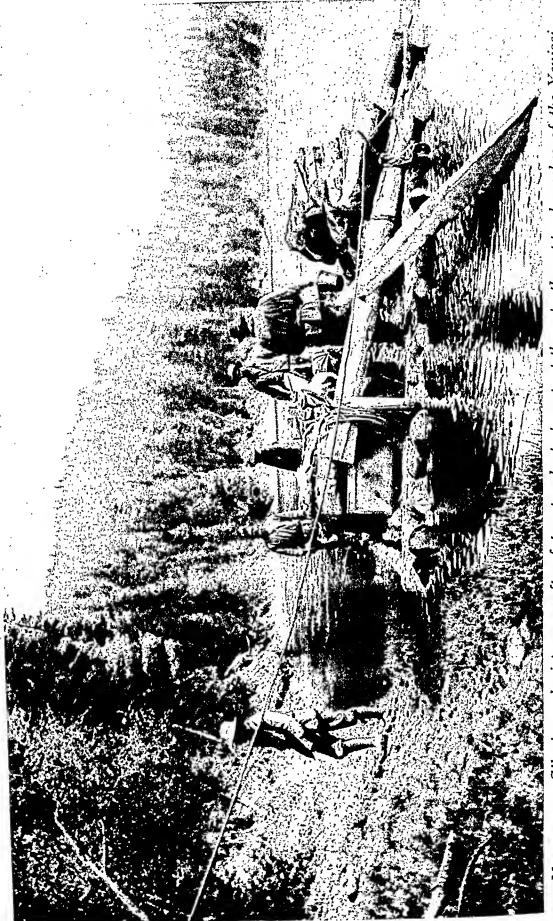
It will be judged then that Mongolia is not a waste land, although a great deal of it is unfit for permanent settlement. Although its indigenous inhabitants are shepherds pure and simple, their moribund existence is largely the result of their own ineptness. Where the Chinese colonists have intruded.





MONGOLIA. Great herds of reindeer roam on the fringes of the Siberian forests at the foot of the bleak Mongolian uplands 2 R 4

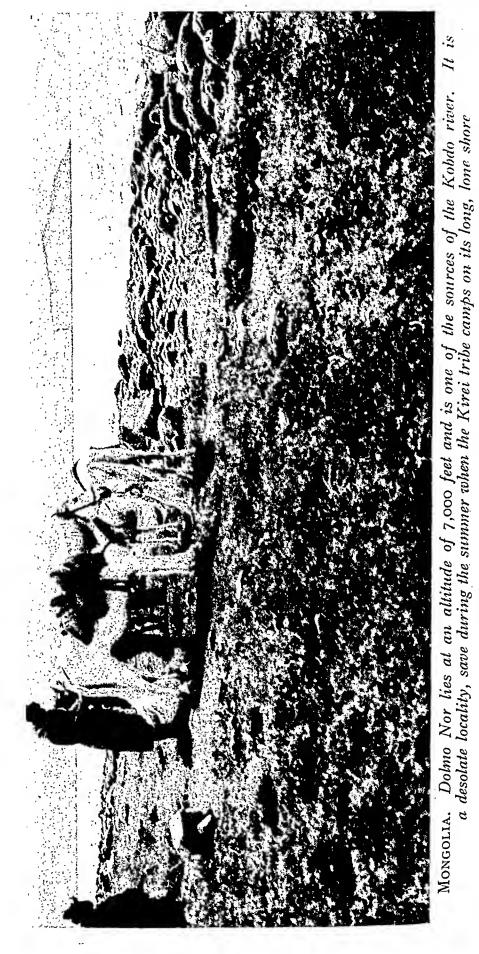
2781



Siberian colonists use rafts of tree trunks to transport them to the upper branches of The boundless forests of firs and spruce make travel by land almost impossible Mongolia.



Great Allai, make a melancholy landscape around the





long-haired beasts only exist in a few places autsule the lighest portions of



Mongolia. The high grass-lands comprise one vast horse-ranch, where the herds are periodically rounded up and the best animals driven down to the bazadrs of Kalgan and other Chinese towns



Moxgolia Massite, rugged peaks rise to a height of 10000 feet in the Furgun mountains pastures in the sheltered calless are tablelands desolated by the destroxing progress of glaciers



Nomad Mongols are here loading their two-humped Bactrian, or Asiatic, camels which bear huge loads as they move from camp to camp



Mongolia. The Uriankhai live in the north-west of Mongolia with their herds of reindeer which serve them even for riding 2788

2789 MONGOLIA

which no doubt hid its biring on the Mongol migration—the inhibitants living outstripped their nicins of subsistence were forced to migrate. But now as is the case with other regions which form that great desert left across the whole of the Old World from Morocco to Lgypt through Aribin Persia and Furkistan to Mongohi the change for the better i taking place the desert is bending to the will of man—the waste is becoming fruitful

Such a wide itea covering as it does fourteen d grees of littlude supports a very wide range of flora Northern Mongolia is Siberian in aspect Dense forests of larch spruce pine and birch clothe the mountains and the valleys are luxurient with grass and wild Swampy forest and thousands of lakes are a feature of the border ranges Larther south the forests covering only the northern dwindle slopes of the hills. This region in transition between den a forest and the netual Gobi may be described as idellic a country of rolling ariss and onen

tumber with a laint of hills behind Larch is the characteristic tree and grows to a great size. The main Gobi is absolutely treeless but wherever hills rise to an altitude of 6 ooo feet or 3 ooo feet above the plain trees are size to be found on the northern slopes.

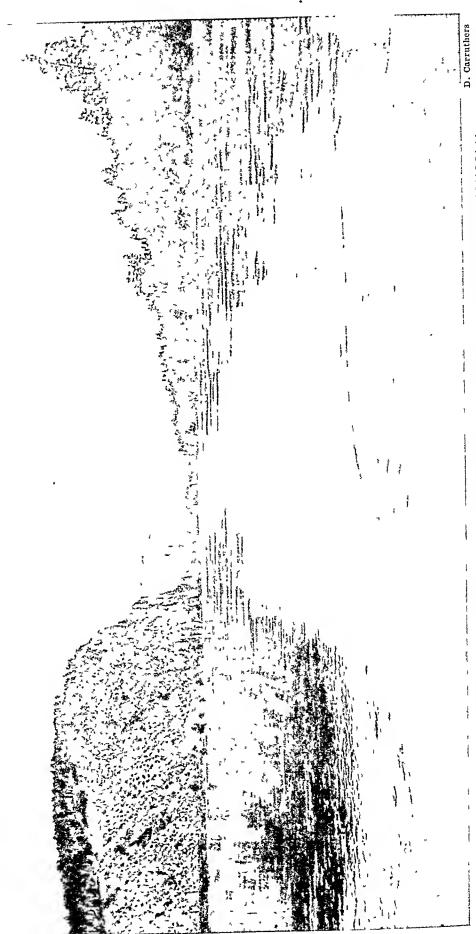
Where there is forest there is permanent pasture and cultivation behavior. The pasture is less certain shifting according to seasons and failing in bady cars the cause of the migratory habits of the inhabitants. The main Gobi itself is not without vegetation in the shape of desert semb and it is pretty well covered in spring with a long gras which although scanty is very materialists. Specially, for came! One of the Chimese names for the region is

The 1 and of High Grass

The funit appears to be even more varied than the flora. Most striking of all is that remnant of the glicial epoch the reinder lift strinded in the Urinlian country, where the tribes subsist thing tentification on their reindeer herds fool cluthing and tring ortall



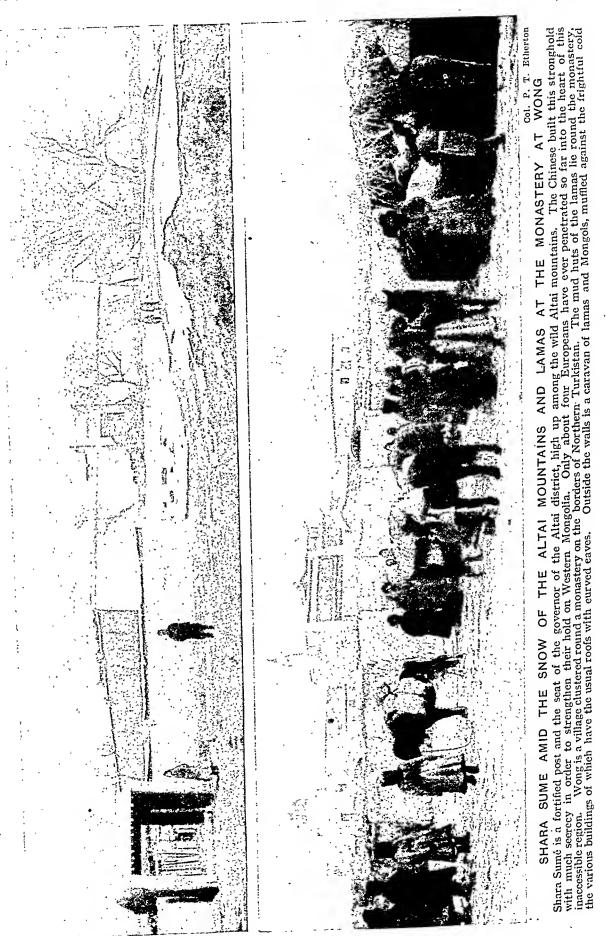
SKIN CLAD MONGOLIAN HORSEMEN ON THEIR BLEAK PLATEAU HOME
On it el 1th Mongolian platen in the moth et the contry les an average altit de of 6 000 feet
Grass is the only vegetat on which affords fine sum ner pa turinge but is under now for eight
montly in the year. This re lost is the true bome of the great wild sheep the Outs dumon the
lead of which vegls a hunter dwight. A head is being loaded on to a pown in the photo-raph.



The Mongolian source of the mighty Yemsei is in a wonderful region of vast forests studded with hundreds of lakes in a mountain-girt basin. This river is one of the great Aretie waterways and flows across Siberia before its entrance into the Aretic Ocean. The steep, rugged bank on the left shows that the river is on its passage through the declivities of the Mongolian plateau. Rapids bar upstream navigation at some points, but canoes and rafts can negotiate the downstream journey. The Yenisei is about 3,000 miles in length, but navigation is restricted to the summer months as it is ice-bound in winter MONGOLIA NORTHERN THE UPPER WATERS OF MAJESTIC EXPANSE UPON



s. a. Chenese to us lying immediately south of the Tarbagatal mo inta no on the fronter between Vacagala and the Rus and procures of Sampalatinsk as a Chenese to the China and the Chin from the town as for the most part ti at is carr ed on from hobdo and by virtue of its position is of considerable political importance lamas and shabitars or vassals of the living Buddha of Urga Chuguchak



coming from them. There is also the yak in the Turgin highlands near the Siberian frontier—their nearest neighbours are in Tibet—1 000 miles away.

The sub Arctic character of northern Mongolia is also shown by the existence of wight elk roc deer musk deer beavers and other for bearing animals The great stags are so numerous that the artificial breeding of them in encloaires is a hierative husiness with Russian traders for their horns in welvet fetch a large sum in Peking bazaars. The Yemsei forests are famed for their sables. These are all Siberian forms overlapping into Mongolia The great wild sheep wild horses gazelles are typical Mongolian funn. The big horned sheep the true Ovis ammon has its home in the Kolylo region and its varieties are to be found on nearly every range throughout the northern half Mongolia These giant sheep as big as a donkey are among the finest frophies the big game hunter can obtain

A Nation of Herdsmen

Other central Vain forms extending into Monjolia are the ibix the snow heepard and the marinot while one stringe anunal the suga—of the Russian and Siberian steppes—is found on the Zingerian plains.

The Yongols are a nation of herd men whose hises are centred on camels and horses and sheep. The primary occupation of the inhabitants of Mongolia is pastoral. The bulky Boethian comels are the finest in Asia they form the goods train of the deserts supply the felt overing for the tent towns and thrus on cold bleak uplands.

Of scarcely secondary importance is the horse for the Mongol is practically unable to wilk so used is he to a life on horseback. Since the days immemoral Mongola has been the horse supply of China until quite recently the emperors had their own horse ranches out in the Gobi while the Russians have made attempts to improve the type with a view to tapping the immense supply as remounts for the border Cossack.

regiments. The main occupation there fore of the Mongol is the simple life of the cuttle and horse rancher with flocks instead of money and tents in place of towns. But that does not mean that there is no other wealth to be tapped. There are fine fisheries at the sources of the occur, going rivers there is doubt less great mineral wealth still hidden in the northern distincts just as there is in the Rivisian Altan acros is the border.

Ten the Unit of Piclange

There are also agricultural possibilities Ranching in the north would correspond in some degree to ranching in Alberta and there is sufficient prospect in the more and regions to tempt the sugacious but tencious. Chinese farmers to settle wherever they can chaim a foothold. The Chinese also supply the commercial element as no Mongol ever kept a step.

The Chinese trader is evident in every settlement and every encompment his sole competitor being a few Russian travelling merchants. The main means of barter and evelange is brick to a the Mongol giving his hides or wool and his horselfesh in exchange for this his staple druh.

Mongolia s Three Towns

A million and a ladf square miles and three towns such is Wongolin Northern Wongolin is cut off from China and handy for the Russian Urga the capital lies on the main line of communication which must some day become a rulway, a short cut to Peking from Irkutsk

The only other two settlements which can be called towns also lie in the north west—Uhassuth a small trading centre 400 miles to the west of Urga and Kobdo under the Altai mountains. It may be asked whether Mongolia in the days of her greatness did not possess more cities and greater ones. The answer is that Mongols were always nomadic and their greatest centres were immense encampments of tents. We know it is true of certain ruined cities such as

Karakorum, the ancient capital of the Mongols, and there are indications of very early settlements in the heart of the Gobi at Khara Khota, now in ruins.

The greater part of the total population-between two and three millionslives in tents. The tents themselves are rather superior structures of lattice work covered with felt, a more permanent abode than the Arab "house of hair" for they need to be moved less often. The encampments, some of them very large, move about according to the season and the pasture. In summer they go up to the highest and best pastures; in winter they retreat to certain sheltered localities, which have become fixed winter quarters and are becoming trading and religious centres. there are certain named localities scattered over Mongolia, which consist of a few shops and a "kurin" or monastery, with a small settled population, which is augmented at certain seasons by a large gathering of the These localities, in winter, present a veritable town of tents.

A vast region with so few settlements does not need many lines of communication. As a matter of fact, Mongolia is all road; you ride in a straight line to your destination, or your camel caravan follows the easiest gradient, from one camping place to the next. When the first envoys were sent from the courts of Europe to the great Mongol Khans, they rode straight across country from Europe to Karakorum.

The earliest and most historic of Aryan trade routes, the silk route,

skirted Mongolia on the south and ran direct from Peking to Kashgar. But with the coming of the Russian, trade began to flow north from Peking to Urga and out to Siberia at Kiakhta. This has now become a permanent route, and it has a regular postal service. Eventually a railway must follow the same line, for from Urga westwards the frontier is a mountainous one for a distance of 1,000 miles until the valley of the Irtish is reached.

Here, and also at the Zungarian Gate where the Siberian steppes are linked with the plains of Zungaria and eventually the Gobi, are strategic points which are likely at some future date to be used for through communications across the heart of Asia.

Mongolia is a region of very definite character, a strong environment which has reacted on its inhabitants to a marked degree.

The reason for Mongol degeneracy is not far to seek. Lamaism is at the root of it. Religion succeeded where the Great Wall of China failed, for until the introduction of its peaceful tenets even the Great Wall was not a sure protection.

But now the Mongol lions are as lambs. Every herdsman's tent gives a lama to the monasteries, every lama drains the resources of the home: the indolent life of the monastery is repeated in the life of the people as a whole, and inertia becomes their chief characteristic. One thing alone is likely to keep Mongolia intact, and that is the necessity of having a buffer-state, or neutral zone, between Russia and China.

MONGOLIA: GEOGRAPHICAL SUMMARY

Natural Division. Inner Asian plateau, a land of indeterminate margins containing a basin of internal drainage.

L. Chad basin in the Sudan.)

Climate and Vegetation. Continental climate of great extremes. The Gobi (= desert) is the eastern part of the old world belt of deserts. On the colder northern side fertile valleys, mixed woodland and grassland are followed by forests.

(Cf. the Barbary States along the Sahara.)

Occupations. Herding with nomadic conditions, tent-life, etc., is the traditional occupation. (Cf. the Sahara,

Arabia.) Intrusive social groups from the warmer south-east are tillers of the ground and from the north-west are ranchers; both areas contain permanent settlements. Hunting, fishing. Trading mainly by Chinese.

Outlook. With considerable, yet almost completely unexploited, natural resources; without close contact with the rest of the world; burdened by an economically parasitic priesthood the Mongol is inert and will retain his land merely because neither agressive neighbour will permit absorption by the other.

The Coastal Capital of Uruguay

by J. A. Hammerton

Author of "The Argentine Through English Fyes and A Summer in Uruguay

SEPARATED by no more than 120 indeed of water from Buenos Aires,
Montevideo is as different from that great city in climate character and appearance as it well could be And yet in spashing of this capital of the Uringuryan republic, so stringly individual in character and within one of the pleasantest places in South America, it is difficult not to adopt Buenos Aires as the standard of comparison.

In the minds of most Europeans who have given no special study to South American topography, there is still some confusion as to which of these two cities is the capital of Argentian. They are both on the river Plate and that is probably the reason for this confusion. But the salty esturry of the Plate at Montevideo is well over 100 miles wide, whereis at Buenos Arres it is a mere 30 miles across

The grent stream of emigration swept prist Montevideo and on to Buenos Aires for many good reasons, turning the Argentine city into a veritable cosmopolis and leaving to Montevideo the pleasantly provincial sort of atmosphere that is but one of its many charms

A Picture from the Water

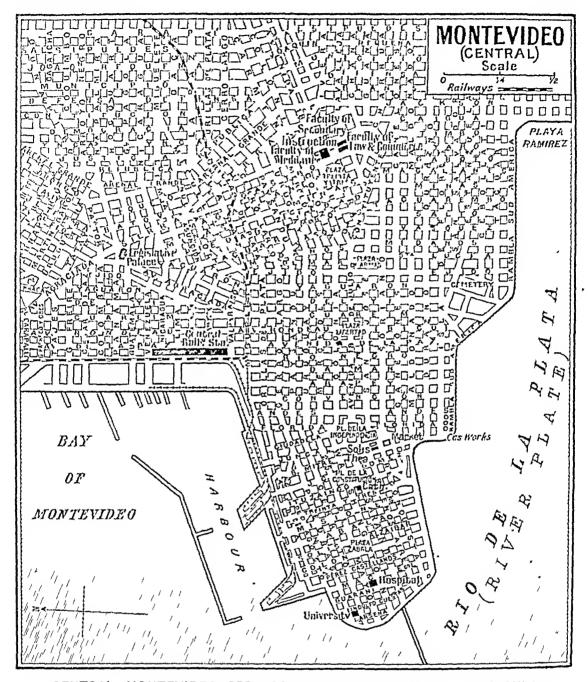
Whether approached by day or night, Montevideo presents a most engaging picture from the water It covers a little lumpy peninsula that projects from the northern bank of the river Plate estuary, where the mighty river mingles its tawny flood with the sea. Thence the town has rambled inland and along the coast, seaward to a promontory where he the suburbs of Ramirez and Pocitos and upstream round a more spacious bay to the forterowned bluff of the Cerro, and beyond

After dark this inhibited figure-of three springs to life with a profusion of electric lamps that east their reflections across the water to imngle with those of the buoys in the harbour motor launches with their red and green lights warm among the blizing outlines of anchored liners—and the lighthouse on the brow of the Cerro throws its ordered succession of beams into the dark immensity of the great river. At such a time the scene is one of pure loveliness, and Vontevideo belies its surface cliarms less than most capitals of Latin America.

Lessons Learnt from Revolution

The foundation of the town dates from 1726, when Don Mauricio Zabala, Governor of Buenos Aires established a settlement there to check the expansion of Portuguese Brazil the original inhabitants being drawn mainly from Andahisia and the Canary Islands By this means the territory now represented by Uruguay was kept essentially Spanish in character, although geographically one would assume the river Plate to be the mevitable boundary between the two races in their colonising effort Indeed, down to 1825 Uruguay was regarded as a province of Brazil

Montevideo has had a stormy history from its infancy until our own day list name was long a byword for party strife, and at a time of crisis in 1912. I remember asking the late José Rodó, Uruguay's most eminent author, if there was danger of a rising. He said "No matter how angry the political passions may seem there will be no rising, as both Reds and Whites are now aware that revolutions do not pay." It had taken them about a hundred years to learn that lesson.



CENTRAL MONTEVIDEO SPREADING INLAND FROM ITS PENINSULA

In 1807 the town was captured by the British, and subsequently relinquished after their failure at Buenos Aires; then in 1814 the Buenos Airians, who had secured their freedom from the mother-country four years earlier, sent an army across the river, under General Alvear and Admiral Brown, to expel the Spanish government adherents from Montevideo. But the town did not long remain an Argentine possession, and after the three years war between

Brazil and Argentine it became, in 1828, the capital of the independent republic of Uruguay. The long struggles between Argentina and Brazil for the possession of Uruguay effectively destroyed the commercial preeminence which the repeal of the Cadiz monopoly in 1778 had given to Montevideo.

Nor had the city seen the last of Argentine pretensions. Under the dictatorship of the infamous Rosas in Buenos Aires, General Oribe was sent to be upe the city which held out herefully in her G in 14 Paz from 1813 13 1852. And in the I in run it was Brazil to when Montead of owed the bamings of her it we property.

In 1864 the Breithin's chose to interfer in Friedrich and Hurs Hekndel the Inflority Ondervile in Toccupied the city. But in Brights, who epined war with Pringuist, Unguist wit inche the Isse of operations from which fact the Matterleins were not discontinuous.

resolutions which puretured the later of Montaline del simplishing little land of the plant of the later of the come will be visit the plant of the later of the plant of the

Organily the with is built upon the torgal of lind already mentioned so that the old town is a penniodly and in many of its transver extreets you may lisk to water at other only. It is to

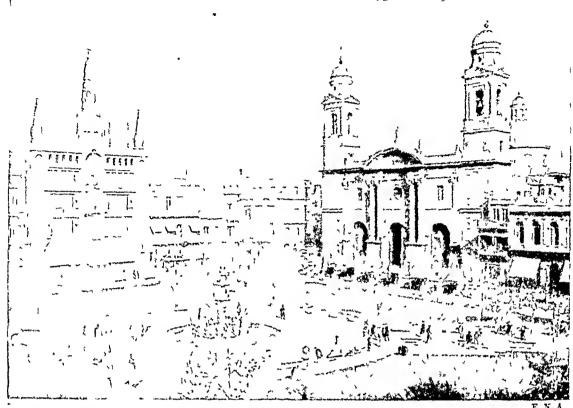
this fact that Montevideo owes its temperate chimate which forms such a wideon change from the sultry hat of Buenos Aures in summer time. There is hardly a day of the year when cool textes do not come up from the sea and flow fit haly through the streets sweeping away that and smells indeed it same firm for cuttled to the name of Good Airs—than its elder sister across the fiver. The mean temperature signal as a count of a for Buenos Aires.

But this original peninsular site has stoved for too small to contain Montesulco s present by fultition of clo e upon 400 000 and so the city has spread inland and around the bay in many In a and han being asonnes leading on to fine suburbs on the outskirts And set although now in reality on the frince this older part is still considered the centre and contains the most crowded streets and popular shopping quarters. This is no doubt due to the proximity of the harbour but the pix of of social life must eventually shift further inland as the population grows Here where the streets are still of the



ESPLANADE AT POCITOS POPULAR SUBURB OF MONTEVIDEO

Mo Invileos se vile sul ribs of Pixits and Rain ret are fas ur te summer reserts freven in the fell it of the lot sen of the sun spower is ten perel by refresh metrecers from the sen. All certain the soft the var lift fine's rep of sea from all fortist is gay with through of villors from the fast to able world of the most vites and from many Ur guayan fowns.



MONTEVIDEO: THE CATHEDRAL AND THE PLAZA DE LA CONSTITUCION
The cathedral in Montevideo faces the Plaza de la Constitución and has two square towers 133 feet
high, and these, with the large dome behind, rise high above the surrounding buildings. The church
was consecrated in 1804, and became a cathedral in 1869. The present façade was completed in 1905.
The plaza is one of the main centres of the city with clubs, hotels, business and newspaper offices



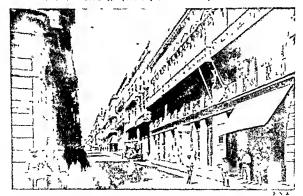
PLAZA DE LA CONSTITUCION AND THE BAY OF MONTEVIDEO

On the left is the cathedral, and at the corner of the plaza is the Calle Ituzaingo, which leads downto the harbour. Across the bay is the industrial town of Cerro, above which is the conical hill known
as the "Cerro" On the top of this hill is a Spanish fort, used sometimes as a prison for political
offenders, within which is a lighthouse whose beam is visible 25 miles out at sea

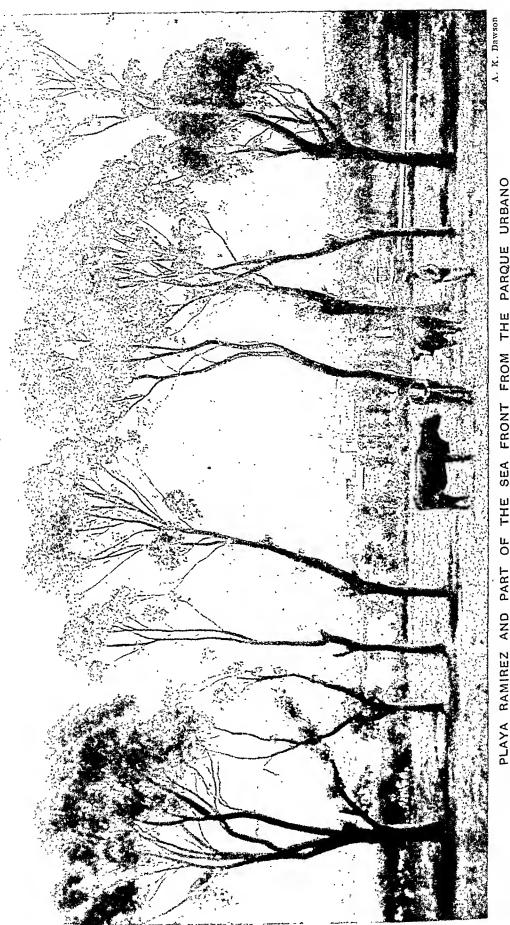


MODERN STREET IN UNUGUAYS ATTRACTIVE CAPITAL

Perfectively for each program to accordance attends. In the field includes with a face and in the includes we have been accordance with proceedings for a control of the co



CALLE MISIONES, A NARROW STREET TRAVERSING THE OLD TOWN IN the local bright nurrows that the generously planned the roughly rather when the generously planned the roughly rather when the newer peril meet Montesiden. He calle Mise is a luminos street ramon, from the Calle 23 de Agosto to the bank of the river lists. The Calle 23 de Agosto on the left of the photograph was based after the date of Urugana's independence August 23 1825



Facing the Rio de la Plata at the castern extremity of the long marine promenade called the Rambla Sud America are the beach and terrace known as Ramirez. The premenant stretches along the bank of the river Plate for a distance of about one and a half miles. On the front facing the Terraca Ramirez is the face Park Hotel, which is one of the best hotels in the city. The Parque Urbano and the Pasco del Prado are the two suburban parks, and the former has been left to a certain extent in its natural state and stretches eastwards from Ramirez along a promontory

narrow colonial type in a curious mix ture of the commercial and the domestic are to be found the Bolsa de Comercio comed from the Bordenix Lychange the hig banking houses the shipping offices the warehouses of importers the fashionable shops and the dwellings of many business men. I or although the superior attractions of suburbs like Pocitos have made themselves felt, the pleasant old custom of the merchant living above his premises has not yet entirely passed away So too the doctor and the lawyer prefer to live right in the heart of their district

In the centre of this Cinded Vieta-Old Town-is the Phys Constitution with the nandsome though modest cathedral or mother church Matrix which gives an afternative name to the square. The historic Hony of Representatives an unumpressive affair on the opposite side where I have sampled Uruguayan oratory lins been replaced by a fine new legislative palace about a mile and a half away to the north-east at the junction of the Avenidas Agraciada and Sierra-a symptom of the slufting centre of social gravity

English Club and Church

In the Plaza Matriz is the attractive home of the Urugury Club with the smaller quarters of the Lightle Club lucing it on the other side of the square A turn to the left down the Calle Treinta y Tres which forms the western or riverward side of the plaza will bring one down to the water's edge where the Lughsh Church stands on a rocky eminence in a low and squalid dockside quarter A neat little building of basilica type it has been there for half a century and more but its surroundings have degenerated and the houses it dominates are ol bid repute sought only by the scum blown in from the seven seas

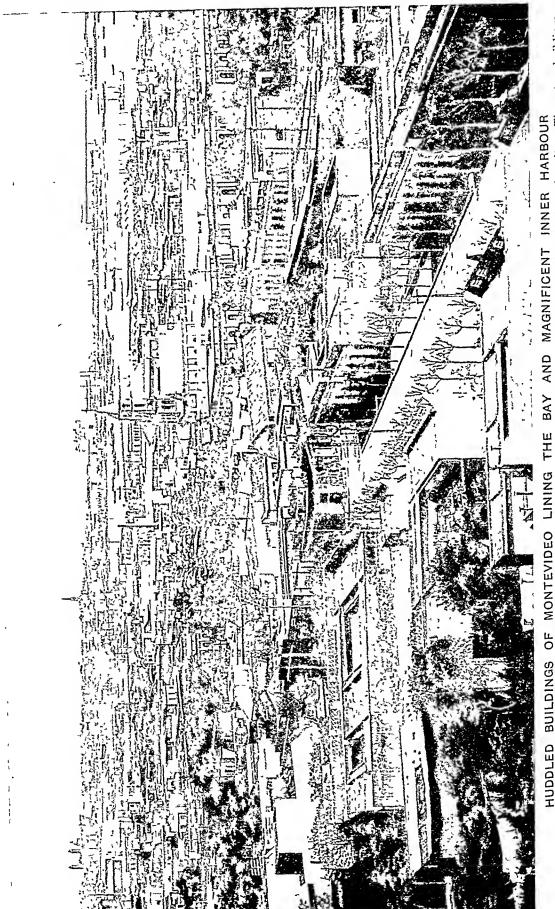
The traveller who wishes to quit the Old Town will find himself perhaps in the Calle Sarandi which bisects the peninsula running from its tip through the Plaza Constitución to the Plaza Independencia Thence the inagnificent Avenida 18 de Julio will take him on his way. But by this time one notable point of difference between Montevideo and Buenos Aires will have struck him the houses though rarely rising higher than two storeys have a lar greater air of solidity about them due to the more general use of building stone instead of stucco or cement. The Iliza Independencia for instance although most of the structures recently surrounding it are certainly bound to di appear including the Government House shows every promise of becoming one of the finest public squares in the world

Safety valve of the Cafe

Its shady areades and its broad pave ments over which the cales pill their anunated complement of tables and chairs form a scene that is exentially Parisian heightened by the long vista of the Avenida 18 de Julio with its theatres and more cafes Indexl it seems to me that in outward appearance at least Montevideo might more aptly be described as the Paris of South America than Buenos Aires Here is the nucleus of the city's life here rage those burning political discussions which once found their vent in revolution and to-day exhaust themselves in leading articles

A Stroll through the Plazas

The Avenida 18 de Julio is the finest street in Montevideo It runs inland from Independencia to the Parque Central passing first on its way through the beautiful Plaza Libertad or Cagancha and then skirting the Plaza de Armas on its right These plazas are the feature of the town as in most South American capitals others of note besides those already mentioned being Zabala Rincon Flores Frutos and Treinta y Tres The last we pass on our way down the Avenida from the Plaza de Armas towards a group of buildings devoted to university facultics of medicine law and so on



On the left of the photograph, in the distance, are the towers and dome of the cathedral, and in the centre on the horizon is the university. These two buildings are situated in that part of the eity which stands on a tongue of land thrust out into the bay. Occupying a large part of the foreground is the National Asylum, with a spire at one end and a cupola-topped tower at the other. The broad bay on which the city stands commands the estuary of the river Plate. The end and a cupola-topped tower at the other. The broad bay on which the city stands commands the estuary of the river Plate. The harbour is a handsome one with splendid docks and breakwaters; by the side of the harbour is the central railway station HUDDLED BUILDINGS

The university itself is off the Calle Lindolfo Cuestis at the tip of the pennisula

These university buildings are dis tinetly beautiful and in them centres a Perliups in no vigorous educational life other South American city is more attention paid to education a fact which is exemplified by the number of Uruguayans holding positions of import ance in journalism and the I arned pro fessions throughout Arrentina another symptom is the literary and dramatic prestige enjoyed by Monte video of which the outward and viable sign is the number of theatres in proportion to the population. In particular the Solis the Politerma and the Orquiza theatres graced by the productions of many native dramatists are com modious and well built

Pleasant Suburbs for Workers

At the corner where the Faculty of Medicine stand, the Avenda Sierra brunches to like left to join Agricarda about 1 mile away or the traveller in search of other fine avenues might have closen Constituents which forks with 18 de Julio at the Plaza de Armas Bul to reach the bouler and Artigas which trials the finest in the city we must go farther inland after running northward for several miles it turns a right angle and cuts almost to the bay

All round Montes ideo are its suburbs such as Paso Molino and La Umon and eaty workers even have their residences as far afield as that dehglifful uland town of Villa Colon where plentiful small streams and a senues of great trees make a perfect setting for a home. Round the base of the comeal form a monter suburb mainly in distrial. But the play as or waterside resorts are where Montevideurs flock when in holdry mood. Of these Rumfrez and Pocitos are on a promontory south ward and Capurro half way towards the Cerro on the opposite side.

Each has its various carmials and noches de moda and thither on such occasions the crowd streams out

in trains to sit on the promenade or will rup an I down to the string of a bind. At each there is a line of bithing. I was and a pier or a promenade all decked out with the South American Frodgality of electric lights but of the line. Pocitos is the most fashionable Kimiteet a sort of Blickpool in little.

Heasure larks of Montevideo

On the out kirts of the town too and not in its cutre as in older cities of sliving rights. I mest of all is the Piese of Hards out towards. Capurro beyon Hards who where the inhaliting perits on the Miguelete. Then there is the Parja Urbano beyond Rimitez with its swinting of pleasure bouts while at Milla Dolores near Poettos 1 a Zoo which in its appointments does high credit to the luminally of Uruguay was as compared with their Argentine neighbours.

For those desirous of enjoying these suburban pleas ires without risking their necks and their pockets in one of the maniac driven motors that ply for hire there is a cheap tramway system which is efficient but not without defects so constructed that the routes converge fan wise from the surrounding districts and meet in the bottle neck of the pen insula. The result is that whereas some of the outlying parts are scantily served the older and narrower streets are bur dened with a dreadful superfluity of half cupty trams which make day and night Indeous by the clangour of their bells up to two o clock in the morning

A Station Wilhout Trains

It is not so with the trains. The fine Central Radway Station in the Avenda de La Par dorned with statues of Watt and Stephenson is as often empty as not for the rulway system of Uruguay is far from developed. Of more import ance to Montevideo are the services of river steamers which make connexion with the Argentine railways at Bucnos Aires or ply up the Paranal Uruguay and Paragury rivers. Another public service

worthy of mention is the water supply, brought from the Santa Lucia river 32 miles away, with a reservoir at Piedras.

Many lines of ocean-going steamers make regular calls, and Montevideo benefits in this respect from its nearness to Buenos Aires, for ships stop either on their way up the river or else to transfer passengers booked thither to the river steamers. Manufactures are few and likely to remain so owing to the absence of coal, and exports consist mainly of live-stock or tinned meat and meat extracts—the Great War has made a familiar name of Fray Bentos, a great Uruguayan packing centre; while wool, hides, corn, tobacco, sealskins, fruit and vegetables are other items

Ambitions of the Montevidean

As for general impressions the city seems almost too big for its inhabitants. There is not enough life to give animation to the fine, long avenues, except from the Plaza Zabala westwards for a mile or so beyond the Plaza Indepen-Nowhere is there the same bustle, suggestive of great commercial interests, as one finds in Buenos Aires. But it is a friendly town, with a comfortable sense of hospitality about its smaller houses that is lacking in the palatial residences over the water. The Montevidean ambition seems to favour a safe berth in a government office rather than to court the fevered successes of commercial life.

Reminders of Mother Spain

Though Montevideo is not so cosmopolitan as Buenos Aires, in one fashionable respect it outdoes its rival. There is nothing of the extraordinary dulness that besets the Argentine city after dark. Until a late hour of the night the central plazas retain an air of brightness, with knots of gossipers at the corners of the streets and mothers with their children sitting on the benches to enjoy the fresh evening breeze.

This state of affairs is almost certainly to be attributed to the respect in which the Uruguayan holds his

womankind. This, and his comparative kindness to animals, sets him apart at once from the Argentine—and here we may marvel what a difference a mere river can mark between two peoples who both owe their origin to Spain. For another thing, the habit of shopkeepers living over their premises does away with the need for early closing and helps to keep the streets animated.

As a whole the appearance of the people is essentially Spanish. Foreign residents there are, especially Italians, but in nothing like the numbers that flock to Buenos Aires. And this national bias is reflected in their social life and customs. It is a charming sight to witness all the elaborate ritual of an old Andalusian courtship transferred to the shores of South America. Almost every evening lovers may be seen on the pavement talking to girls through the barred windows of their houses; but even before this stage is reached permissionmust have been obtained from the girl's parents, and a night set apart for a formal visit in the presence of her family without the lovers ever having exchanged a word.

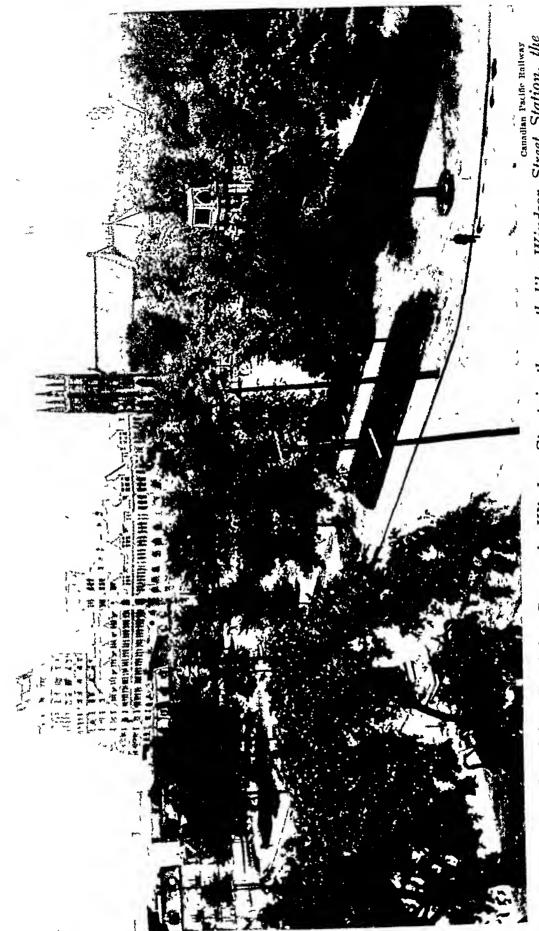
Signs of Unassertive Progress

A further trait which may or may not commend the Montevidean is his lack of self-assertion. "We are all asleep here," he will tell you; it is far from true. His way of dealing with public contracts may not endear him to the foreign contractor, but his institutions and his civic buildings alike show a spirit of progress. No Buenos Airian would ever be found in a mood so depreciatory as to make a similar admission.

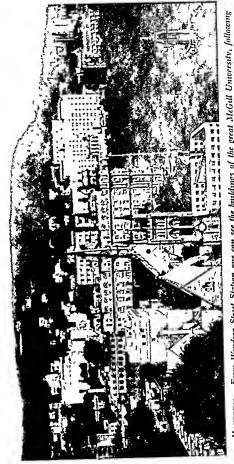
Montevideo may not have the venerable charm that age has lent to Lima; it may lack the stamp of commercial success and the superabundant energy of Buenos Aires, or the superb natural position that sets Rio de Janeiro by itself; but these facts and impressions of people, setting and climate will enable the reader to understand why it may be called the pleasantest city of South America.



MONTREAL In the Place d'Armes stands the Bank of Montreal with its Corinthian portico and dome, 72 feet in diameter 2805



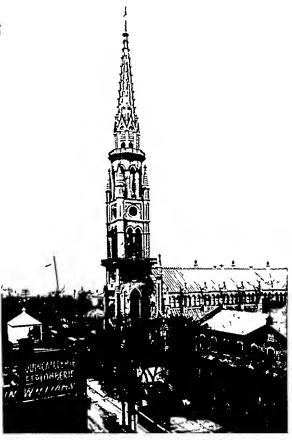
MONTREAL. Just below Dominion Square in Windsor Street is the castle-like Windsor Street Station, the largest railway terminus in Canada. To the right, facing the square, is S. George's Church



Montreal. From Windsor Street Station one can see the buildings of the great McGill University, following the right shoulder of Mount Royal. Founded in 1821, it is one of the furst in all innerica



Montreal. The Grey Nunnery, a hospital and asylum for orphans and the aged founded in 1738, stands in Dorchester Street 2808



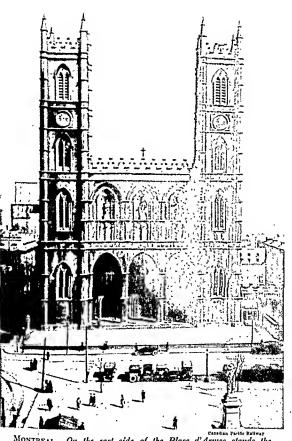
MONTREAL S James's Church, in St Catherine Street, has two square towers of unequal height, surrounded by lanterns and spires 2809



Statues of the Apostles look down upon the Corinthian pillars of S. James's Cathedral, a smaller reproduction of S. Peter's, Rome



MONTREAL. Amid the tall business houses in Phillips Square rises the statue of King Edward VII., facing St. Catherine Street 2810



MONTREAL. On the east side of the Place d'Armes stands the Gothic church of Notre Dame with two towers 227 feel high 2811



Montreal. St. James Street, one of the main shopping thoroughfares, runs south from the Court House parallel to the St. Lawrence 2812

MONTREAL

Canada's Commercial Metropolis

by Beckles Willson

Author of "The Romance of Canada"

"VILLE MARIE"—how full of poors simplicity was the name bestowed by the Stor de Massonicuse and his little band of simily visionizes to the stockided settlement they founded in 1642 on the island of Ment Real!

only," 15 declared Page Barthéléna Vimont, "a tiny seed but I have futh that it will some day produce a great tree, yielding wondrous fruit" Nearly three centuries have rolled by, and the stockaded settlement thus founded has become the largest and richest city and the commercial metropolis of the Dominion of Canada, with a normation of 620,000 souls. It occupies the heart of a fertile plant nearly the size of Lineland It is at the head of navigation for ocean going ships on Canada's greatest river, nearer Liverpoof by 300 miles than is New York, it is the terminus of the entire river, lake and canal navigation between it and the Par West, and it is the headquarters of more than one of the greatest railways in the world

A Microcosm of the Dominion

In respect of races, Montreal is a nucrocosm of the Dominion It contains English Tranch Scots Irish and Jews in addition to Itahans and other nationalities. But the original Trench productic, being more than half the population, and three-quarters are Roman Catholics. In view of the origin of Montreal is not this significant?

For in this pro-perous and teeming the other grey city, with its obsorate "sky-scrapers," its lofty clevators, its busy wharves and rulway stations its palatial throw are it mansions, its crowded streets, one trait the General Copyrited in U.S.A. 1923 by The Amalganiate Pear 1923 Limited.

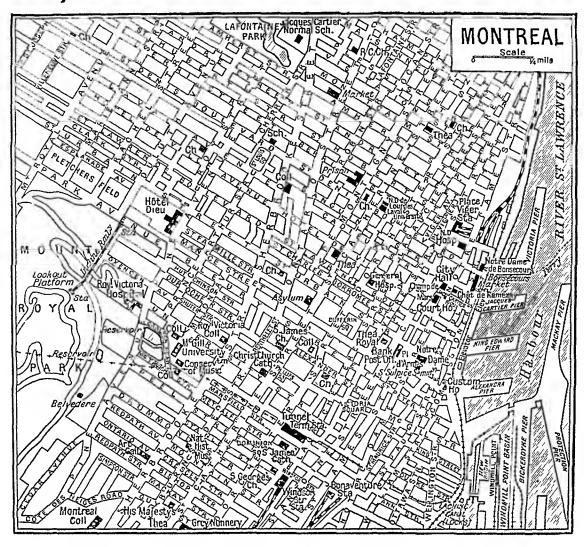
still fooms larger even than all its commerce more aggressive than its towering mountain and that trait is Montreal's religion. Church chapel, convent, college, seminary numery, everywhere meet the overpeering eye. At all hours of the day priests and nuns fraars and missionaties. Jesuits, Dominieus, Franciscus, Redemptorists pervade the city's busiest ways.

City of Countless Churches

The Roman Cathobe church is at once the most conservative and the most aggressive factor in the life of Montreal In spite of a century and a half of British Protestint dominion, and an Anglo-Saxon activity and enterprise which has made it one of the weilthiest cities in the British Limpire, it has never lost its refigious character, and the number of its ecclessistical edifices is so great that Virk Twin once declared he could not throw a stone anywhere in Montreal without brashing a church window

In the ancient Place d'Armes stands a statue of Montreal's founder, Maisonneuve, and from this very spot still radrate the chief monuments of the city's historical, religious and commercial life, although fashion and display have departed as they have in New York and London, to the newer and more westerly quarters of the town one side of the little square I have named the mighty Gothic church of Notre Dame upieurs its bulk, one of the largest ecclesiastic edifices out of Europe, capable of containing 12,000 worshippers, on the other side stands the Bank of Montreal, the largest bank in the Empire overseas while within a stone's throw are the Court House, the City Hall, the General Post Office, the Seminary of

2813



MONTREAL SLOPING FROM THE "MOUNT" TO THE ST. LAWRENCE

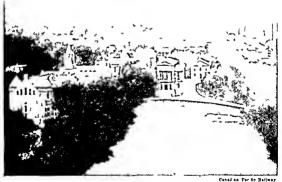
S. Sulpice and, last but not least, that survivor of the old regime, the Château de Ramezay, now a museum.

The island upon which the city is built is triangular in shape, being formed by two of the branches of the Ottawa at its confluence with the St. Lawrence. It has a length of 30 miles, thus affording what other growing cities frequently lack-plenty of room for expansion. Montreal spreads itself upon a series of sloping terraces up to the base of Mount Royal, which it is no doubt destined to encircle. The three chief thoroughfares—St. James, St. Catherine and Sherbrooke streets—run parallel with the river. Most of the public buildings and the finest private buildings are of a local grey limestone, which lends a special character to Montreal architecture and distinguishes

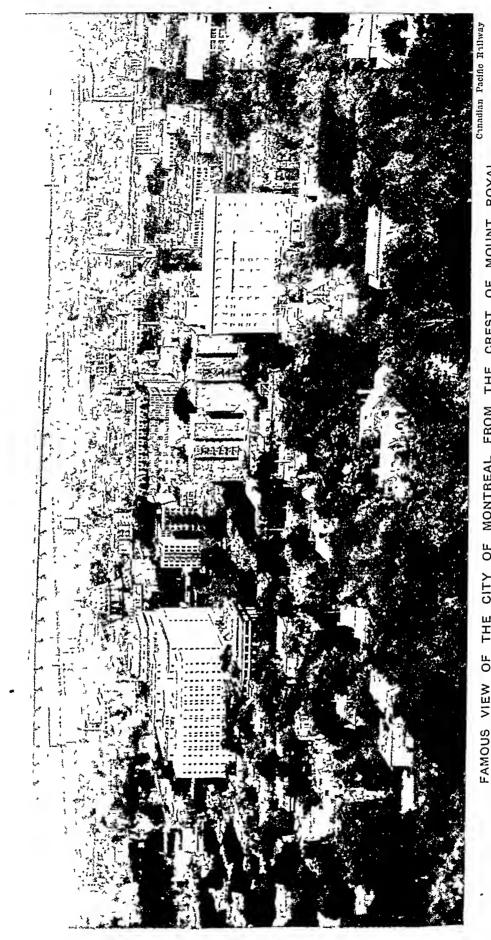
appearance so sharply from that, for example, of Toronto.

After the impression of its size and religious character two things strike the visitor. The first is the narrowness of the streets in the business quarter, accentuated by the great height of the buildings, which together with the prevalent grey of the masonry produces The other is a rather sombre effect. the age and dilapidation of so many of the dwelling-houses in the side streets. Though built of red brick, these have no picturesque quality whatever, and in the lower part of the city too many of the thoroughfares are dingy and untidy. Occasionally they are of wood, which tends to emphasise their defects.

A large proportion of the houses have curious outside staircases, built for two or three storeys against the street fronts.



McGILL UNIVERSITY THE PRIDE OF MONTREAL
One of the leading universities in Cana is in 11e McGill University of Montreal companies several
large buildings set in least tilling under a promise 1 on under a site McCill College in 1821 with the
leaf set of James McGill, it has since leen richly endowed 1) many wealthy Note Canadians, it
leads to the four faculties of Arts, Law, Mediche and Applied Seitner with about 1,200 students



Rishar to the height of 770 feet above the river, Mount Royal, or Montreal's "Mountain," as it is called by English-speaking Canadians, commands a superby prince into a services. In the foreground the blocks of houses are almost obliterated by the dense foliage; farther away tower massive and lofty here structures with storey piled on storey; here and there a dome or spire rises in dignity, and beyond the St. Lawrence, whose nearly two miles of rapidly. OF MOUNT ROYAL THE CITY OF MONTREAL FROM THE CREST

iden of the commerce of the port may be gathered from the fact that although its harbour is bound by ice for four months out of the twelve it is the excenth port of the world and handles one third of the total trade of the whole Dominion

The new docks huilt by the Dominion Government are amongst the finest in the world. There is accommodation for over one hundred vessels. The

trunsit sheds as they are called are enormous two stortyxd structures for the storing of freight handled by the Government Merchant Marine the White Star Canadam Pienfe and other truns attantic lines. There are twenty different steamship companies and the total tomings is 6 537 000 nearly all British and Canadam As allustrating the growth of the port at may be mentioned that between 1911 and 2924 the traffic increased by 350 per cent

Tl ets M les of Water Front

At the opening of the twentieth century the St Lawrence was so Jeficient in dock accommodation that many vessely could not make a landing and others requiring to be dry docked for repairs were forced to steam a thousand miles away. All this is now altered. In addition to four large piers for ocean steamers the new floating dock the Duke of Connaught built in Luciand and towed to Montreal in 1912 has a capacity for ships of 25 000 tons which greatly exceeds the tonnage of any vessel which has yet reached port. The total water front extends for 30 iniles including two miles of bulkliead quays for inland vessels. The whole of the enclosed area is in track connexion with all the railways entering the city

The affairs of the port of Montreal are controlled by a board of commissioners composed of Dominion representatives the shipping interests and the city corporation. The process of deepening the channel is in the hands of the Dominion government. The gruin elevators of the port are so stupendous as almost to dwarf the great church of

Note Dime One has a capacity of 2600 000 bushels and its fellow c in store nearly as much. The conveyer galleries as they are called aggregate eight miles in length and 1 000 000 bushels of wheat a day can be handled

Leaving the river and traversing the streets and squares of the city we assemd Mount Royal. An inclined railway carries the visitor up to the lookout platform. Although only 770 feet high it commands an extent and variety of urban view to which neither Montmartre in Pans nor the Mons Janiculum of Rome can pretend.

The University of McGill

The Mount Royal Park extends over 400 acres and is the rural resort of Nontrealers both in summer and winter On the lower eristern slope of the mountain is the splendidly equipped Royal Victoria Hospital the gift of the two munificent Scottish Canadian peers Lords Mountstephen and Stratheona Beyond and below are the numerous buildings which form the impressive university of Wedill

This famous sent of learning is notable for the completeness of its scientific equipment especially in engineering and medicine and for its inclusion of a residential college for women students the Royal Victoria College and a conservatorium of music A mile or so distant in the French quarter is the French and Roman Catholic equivalent to McGill known alternatively as the Université de Montreal or Laval University founded in 1852 and comprising the faculties of law medicine the arts and more especially theology It is attended by over 5 000 students. The instruction is of course exclusively in French save in the faculty of theology where Latin prevads

Effect of Two Great Bu ldings

Montreal's social and spectacular centre must to-dry be sought in the spacious Dominion Square a change due perhaps to tle simple westerly tendency noticeable in nearly all great

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cities, but which has been enormously accelerated by two diverse factors, the building of the Canadian Pacific Railway terminus known as the Windsor Street Station and the completion of the great Cathedral of S. James.

A Copy of Rome's S. Peter's

This latter is a reproduction on a reduced scale of S. Peter's at Rome—and indeed is generally, but erroneously, spoken of locally as S. Peter's—but although on a more advantageous site is far less interesting, architecturally, than the church of Notre Dame, moticed above. Its dome is 250 feet high, and the lofty Corinthian portico is certainly beautiful and effective. The Protestants, or rather the Anglican branch of that religious body, also have hereabouts their cathedral, that of Christ Church, built in the decorated Gothic style, with a tall spire.

To attempt to enumerate all the churches, convents. numeries and religious retreats in Montreal, many of them of great size and solidly built, is fortunately not necessary here. It is sufficient if their prevalence is pointed out as a distinguishing feature of the city. A generation or so ago they had few if any architectural rivals, but now powerful and even wealthier secular interests are at work to effect the transformation of Montreal.

Munificence in Art

Besides the ornate castellated terminus of one railway company, there is the Tunnel Terminal station of another, the Canadian National Railways, which, piercing Mount Royal itself, has found an outlet close to S. James's Cathedral. Another close neighbour of the cathedrals is the Sun Life Assurance Company's building, and everywhere the old skyline is being modified by similar structures.

In some of the new buildings, however, such as those flanking the original McGill University building, height is not sought so much as elegance. This is particularly noticeable in the new Art Gallery in Sherbrooke Street, which is built of marble with a portico of monolithic Ionic columns, and in some of the lordly private mansions near by.

But it is not in its buildings alone that the taste and munificence of Montrealers are exhibited. The art and literary collections in private hands rival those in many of the wealthiest American cities, and examples of the Old Masters as well as the modern schools of painting, valued at millions of dollars, are to be found housed within a stone's throw of the palatial Ritz-Carlton Hotel.

The Older Montreal

Yet all this, it must be remembered, is the new and secular Montreal, the Montreal bent upon exploiting its unrivalled situation to the uttermost, of rivalling Chicago commercially and aesthetically emulating Boston. For the old, reverent, conservative Montreal, whose spirit, although overlaid by this ostentatious façade of wealth, is still alive and potent, one must turn back to the little low and rambling building, the Château Ramezay, the former residence of Montreal's governors, now kept as a museum of the Old Order.

The climate of Montreal is usually very hot in summer and very cold in winter, the mean temperature for five months in the year being below freezing-point. And yet, owing to the way in which all dwelling-houses are heated and the suitable clothing of the people, the cold is so little inconvenient that winter is undoubtedly the pleasantest season of the year. The city is famous for its winter sports, which include skating, ski-ing, tobogganing, sleighing, snow-shoeing, ice-hockey and curling.

For winter zest, sparkle and gaiety, Montreal to-day eclipses even the St. Petersburg of the Romanoffs, and tashionable Sherbrooke Street or the roads of Mount Royal Park, with their procession of sleighs, sumptuous or quaint, drawn by brightly garnished horses jingling their silver bells, are invested with a mid-winter charm and elegance not to be seen elsewhere.

MOSCOW

Russia's Holy City Under Tsar & Soviet

by Sir Philip Gibbs

Anther of "The Middle of the Road"

To write of Moscow now is to describe a city in which many aspects of us old life, famous in history, have suffered meent death

nsing, pave surren recent tradit It was the holy city of Russia in which the Tears were crowned, and where they held their count with the greatest mignificence. There is no longer a Tear or a court, and mignificence has field from Moscow, where

poverty reams instead

To this city is the spring time came the hold s, officials and rich interchritis from St. Peterburg, or Petrograd or Lenngrad—the name of the late capital has changed rapidly since the Great War—to lead a life of case and having with their elegant womenfolk.

Those people are either dead or in cule, and their fraunts of pleysure air for the most part closed. The Hermitage restaurant, for instance, was one of the most sumptions and expensive places in Europe. When I went to the Hermitage after the Great War, in time of fimine, it was a soup kitchen, in which American relief workers were feeding under nourish of children.

From one Melodreme to Another

Since the Revolution there is no longer a consuless tide of smart carriages taking rich ladies and their cavaliers to the fine shops in the Kinnetzki Most or the Lubyanka, the Bond Street and Piccadilly of Moscow before Communism

There was not a shop open when I was there in the last days of Lenn's rule, when all private trading was for-bidden, and although they are now allowed to trade again, their custom is poor and their stocks are small. As long as the Soviet regime endures t seems certain that the old air of splendour in

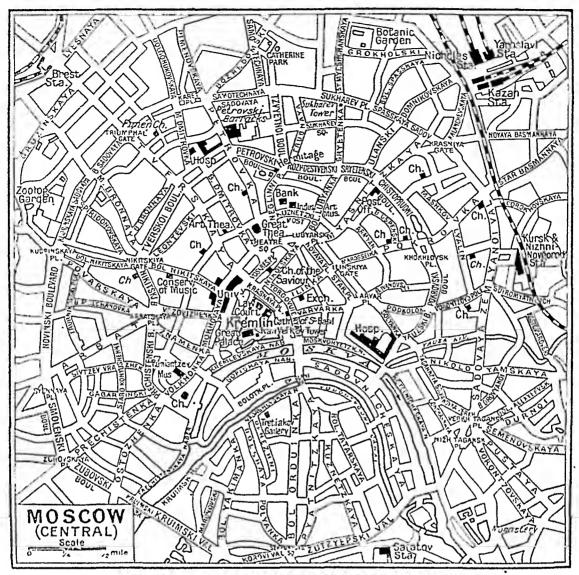
these streets will not come back. So Moscow has changed and yet it still crimins the most atomishing the most finitistic, the most dream like city in Lurops crowded with life which is lik 3 scene in wholerum.

Vision from an Oriental Tale

I rom a r dee to the south west of the city called Sparton Hill one non sees Mo-cow outspread inchanged in its central pacture, though so many houses were burnt and rebuilt after that day of history. Under a blue sky-decily blue in the shimmering heat of summer pake blue above uniter snow-it rises from the plan like some vision of an Oriental tale It is a city within a city enclosed by a double line of high funtastic walls with fan-shaped buttlements Above them, in all directions, are tall, thin towers like inmarcts crowned by pear-shaped domes glittering in a golden way, so that the sun's rays flash from them

There are four hundred and fifty clurches in Moscow, and the greater number of them have those golden cupolas, large and small, above tall white shafts so that in some places they are thickly chistered and take one's eyes skyward with a sense of wonder Between them are white palaces and old white-washed houses, and in the centre of all the inner fortress city of the Kremim, flanked by enormous walls with those curious fan-shaped battlements, entered by narrow gates, with stone stairways lending to the ramparts, and within a huddle of churches, palaces, barracks, offices and bell towers, all crowned by those glittering domes again.

The whole city covers twenty-seven and a half square miles, through which



MAP OF THE REINSTATED CAPITAL OF RUSSIA

winds the River Moskva; and for a thousand years of tragic and bloody history the heart of Russia has dwelt here in "Little Mother Moscow," as it is called by the Russian peasants, who love it in spite of its cruelties, its terrors, its bloodstained stones.

The outer city is called the White City, and is enclosed by a wide girdle of broad boulevards lined by trees and intersected by wide streets which radiate from the Kremlin. In the old days these were the quarters where the aristocracy lived in great mansions, and in which, after the Revolution, the poorest classes of Moscow were given house-room, except for certain buildings that were reserved for Soviet offices. At the entrance to the inner city,

through a narrow gateway, where at night a lantern burns, all men doff their hats and caps, as even the Tsar himself was bound to do. In a little chamber to the right of the gateway is the shrine of the Iberian Virgin, a picture venerated by all Orthodox Russians of the old faith, and believed by them to have miraculous powers. The Virgin's head is enveloped in a net of pearls.

Immediately opposite, cut in large letters on a high wall, is an inscription made by the Communist rulers of Russia: "Religion is opium for the people."

It is the assertion of a godless creed at the very entrance to the heart of Russia, where all the Tsars and all the peasants who passed murmured prayers 2821 MOSCOW

through the centuries. That writing on the wall scened to have little effect on the minds or customs of the people when I was there for all day long every time I passed as I dil many times I saw groups of poor people standing by the little shrine with its lighted candles and every drothly driver or person who passed doffed line fur cap in definine of Sovict orders and with inherited and trultional reverence which had not yet been killed.

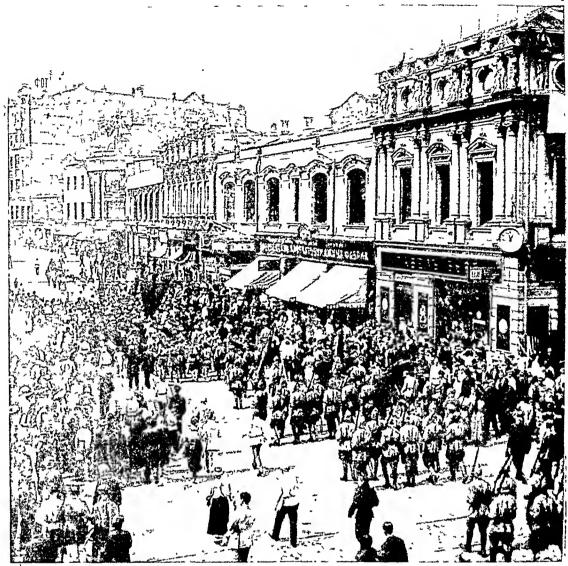
Through this gate the way leads to the fumous krasmaya or ked squar a great open space will amously paved with cobile stones in which there are

deep ruts and holes under the high walls of the Kremin. On the opposite and is a row of shops, called the Trading, Rows, and Is yourd where the ground dipe downhill towards the river is the earthedral of S. Basil which is certainly the most extraordinary. Furtastic and anizing adventure in stone ever attempted by an architect of perverted implication.

It was begun in the regin of Ivan the Terrible to comm morate the capture of Kazan and its Tartar hordes in 1554 and its dark hith chapels on two storys are surmounted by a dozen cupolas and spires painted in many different



SOVIET SYMBOLISM ADDRNS MOSCOW ARCHITECTURE
Red R sila util set I er commandeered establishments according to I er needs and decorates them
externally with to I inscriptions reluting to protein according to a re rectain order resolution. I ormerly
the CI to of the bot fitty now the House of the Workers this building is near the theater square
Ti e notified declares that the Dictatorship of the Workers is the Salvation of the World.



F A. Mackenzia

BOLSHEVIST MILITARY FUNERAL IN THE STREETS OF MOSCOW

A military funeral is usually attended with all honours. Here the cortège, with banners, brass band, and troops with rifles and fixed bayonets, is seen passing through the Kuznetzki Most. This erstwhile: Bond Street of Moscow runs from the Petrovka to the Bolshaya Lubyanka and was once the city's most animated and fashionable business thoroughfare; it is now a mere ghost of its former self

colours and formed into astonishing shapes. Some of the spires are twisted and coloured like the old-fashioned sugar sticks, others are covered with painted scales and others are serrated.

The cupolas are like the turbans of the Sultan's Mamelukes or Circassian bodyguards, in medieval times, with striped colours and bulb-like shapes, and above all this queer conglomeration are massive gilded crosses.

The Red Square, in which this church stands, reeks with history and old blood and recent tragedy. In the time of the first Tsars, of whom the cruellest was Ivan the Terrible, it was the place of public execution. Patriots, heroes, martyrs, were hanged in batches below the Kremlin walls, to the beat of drum sounding above the roar of angry mobs and the wailing of the victims. Here the Ukases of the Tsars were proclaimed to the people, who groaned beneath their ancient tyrannies. There were burnings, floggings and many murders; below these walls.

Across these very cobble stones rode. Napoleon and his generals to stable their horses in the church of S. Basil; while their men searched for food and loot in deserted houses, from which presently came a smell of burning.

Round the corner within the wills of the Kremlin rises above this square, the tallest tower of all the towers known as Ivan Veliky or Big John and it was from the parapet below its pear shaped dome that Napoleon stood with a few of his followers and looked down upon a burning Bosems and saw in the heart of its flames and in the dark cloud of smoke creping across the sky the message of his own doorn

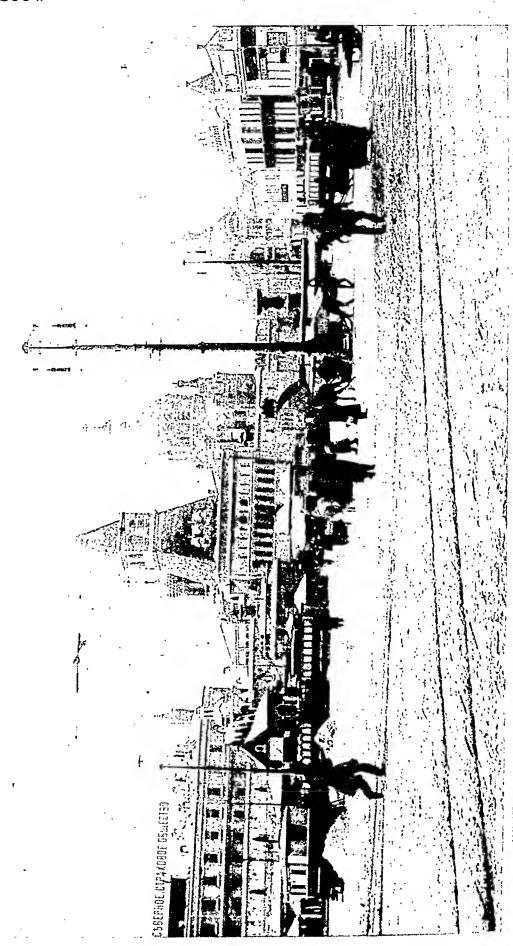
In that Red Source recent history has added to the chosts. The last of the Romanoffs—the Luperor Nicholas with his work good nature his deep love of Russia his mystical faith his sense of impending tragedy stood here to proclaim his share in the Great War to call in the localty of his people to demand their service and sacrifice Then, were great parades of the Imperial troops glittering generals magnificent cavalry until revolution followed war, and the Red Square was the gathering place of terror while from all parts of Moscow came the sounds of tumult and of civil war with a sweep of bullets and a rour of guns

Here I saw another kind of military parade under new dictators as Trotsky returned Ins Red Army on the ann versary of the Soviet Republic. It was in the winter with a light fall of snow on the ground and a cold wind blowing and the Red solders wore their long overcouts with the spiked cap which markes their look like Vesyrian warriors.

Within the Kromlin Lonin the new dictator has all-dying they said but when Trotsky came out in his motor car a crowd of hungry and haggard people cheered though it was hard to see at that time what benefit had come to them by the overthrow of the old regime except an equality finisery Not even that indeed for the kommissars and Soviet officials and the officers of the Red Arms wer letter fed and better clothed than the proletariat governed by their new form of autocracy and tyranny Outside the Krembn walls on an open bank above the Red Source were the gra es of men who had died in the service of the Communist faith among whom was one Lughshman



GREAT OPERA HOUSE OF MOSCOW UNDER SOVIET PATRONAGE
TO Bolsi of the tre form rhy the Great Imperial Theatre was rebuit after a fire in 1854, and holds
toop people. Since the Impries fall it I as witnessed many strange scenes. Here annual sess ons
of the All Russ an Congress of Soviet base beet held and magnifice to operas presented to peasant
a sthemest. The encouragement of dramate art be my a burght apont in the Commitudes in record.



The Lubyanskaya Ploshchad or Square lies to the cast of the Vladimir Gate—the archway seen in the right central background—which gives access to the north end o the Red Square. To the right of the gate the Tcatraini Proyecd runs down to the Theatre In its general aspect the city of Moscow has little changed since the Tsarist days, but to the WEATHER IN ONE OF THE LARGE SQUARES OF 'MOSCOW, CAPITAL OF SOVIET RUSSIA of the Nikolskaya, one of the chief streets of the inner city leading on to the Red Square. To the right of the gate the Teatre Square, which is dominated by the Opera House seen in page 2823. In its general aspect the city of Moscow has little cha visitor who can look below the surface the pathos of daily life is indescribably tragic Now there is a new grave. It is that of Lenin hunself the leader of the Red revolution the acknowledged lead of the Soviet State and in his strunge uncanny ruthless way a man of genum who seems to have put a spell on the Russian people and who had it courage to acknowledge the failure of his own ideals to revoke many of the communistic lives and to gruit som of the

ragged caftan his sleep kin coat and bast shippers his wife and dau, hiter with shiwls ever their heads om Irothered boddes wide petitionts and boots of Irightly colored leather Greeks and Turks go I) and the religious and Turks go I) and the religious in with entire trees. There are Greek in with part titled boddess and tillfill via a trikhin cloaks reaching.



NOVO DEVITCHI CONVENT FROM THE OUTSKRITS OF MOSCOW

Take id norm and turp has for open into it is even view of Noveo. Those absorbed to concerned off it is event, so in the Nove has been at the sold extended to easily of a form in the novel in the Nove has a content of the content of the content of the novel in the normal wall are a call clear a retrail curries a visibility of the normal process and

old liberties of private trading and private property before his death

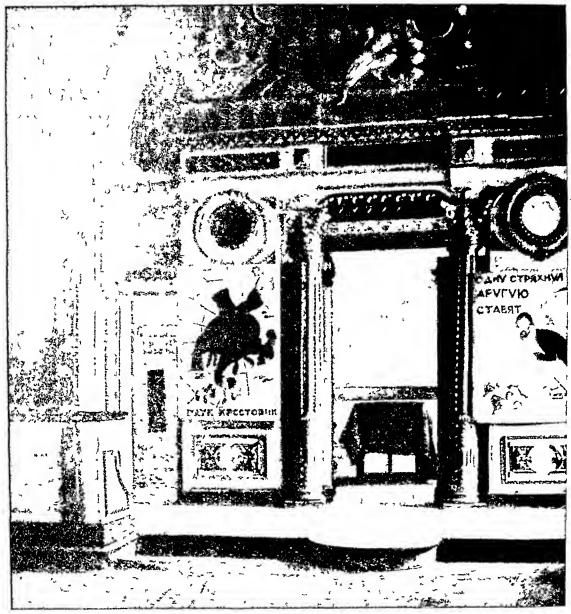
He was a realist and a humorist as well as a terrorist and dictator. Perhaps the world has never seen such a queer combination of qualities in any human being and perhaps no man has caused more misery and violence by a challenge to civilization and a call to world revolution.

Through the Red Square and icross the seven bridges of Moscow and between the inner and outer cities the life of Moscow passes and one sees every type of Russian character and rice. Russian peasants trudge past with their hand drawn sledges or their wheeled earts the old mouth in his

to the tabs of their black boots who are Cossacks of the Don

The typical crowds of Moscow are to be found in the markets at midday During the strictest time of the communistic regime the markets were closed and no private triding was allowed under severe penalties of imprisonment which crowded the gools

But when Lenn established the new economic laws which permitted private triding again under certain restrictions and replaced the rationing system by money wages the markets were reopened and the country folk brought in their produce while the townsfolk dis played old stocks or household goods which they had hidden in the cellars or



F A. Mackenzie

ATHEISM MAKES ITS HOME IN A MOSCOW SANCTUARY

The Church of S. Pimen, in the vicinity of the Triumphal Gate, having been turned into a club, the sacred icons and gorgcous decorations which adorned the altar were removed and in their places Bolshevist placards abusing the priests were put. Above, on the left, is seen a placard representing a priest in the form of a huge spider, swollen with the life-blood of his deluded victims

had been allowed to keep in the time of revolution and requisitions.

Between the rows of wooden booths where there was this display of food stuffs, bits of furniture, Oriental rugs, ironmongery, boots, underclothing and most of the things one may see in Petticoat Lane, London, on a Sunday morning, stood lines of men and women who at a glance could be seen to belong to the old aristocracy or middle class. Their clothes were threadbare, but of different cut to that of the peasants.

Here and there indeed some of the younger women looked almost smart, because of the way they wore their black dresses and neatly trimmed hats, however shabby.

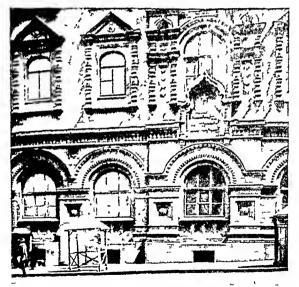
Some of them looked ill and all of them frightened, for they were not quite sure of the liberty of those new economic laws which allowed them to traffic publicly. They held out fur capes, embroidered slippers, trinkets of all kinds, knitted vests, silk scarves, gilt candlesticks, all kinds of odds and 2827 MOSCOW

ends which had once befored to a life of comfort and bounty so atterly destroyed by revolution

The great Sunday market is in the Sukhara's Square and the character of the Russian people is best studied that when all the booths are crowded with Luvers and batteries. As in all of the Oriental countries—and at the end of a single day in Mosons one is commoned of its Asiate character—the inerchant acts twice what the expects to receive and the Luver effects half of what he expects to give before the birgain is strick after probag of disparation. On the whole most teef the market cuited

by the Revolution in Lite Freikdown of industry. I could not say that the crowds into the markets had a handele or dispuring look except where the Lithurs of the intellectuals stood on the kerb tones with their postration int. The persons at least had a stardy cheefful look and were probably better fed than any other class in Ruis because they held the only ource of weitht which by in the kind earth that was thore.

To all tours is in Moscow before the Great War the most memorable seem of splendour was an opera night at the Great Importal Theatre when the



THE RED FLAG AT WAR WITH CHRISTIANITY

The devoit nat tails of the mass of the Ressian people have not been deeply affected by the Swiet regime all this may if reclors affected by the Corost to the Heriza Clore to the the state of the place of this grant of the size of the Resistance of the Re

MOSCOW 2828

emperor and empress and the imperial court were present. Under the Soviet Republic it remained as one of the last sanctuaries of light, warmth and beauty in a city of darkness and poverty, for the Soviet leaders and officials encouraged dramatic art, maintained the ballet and gave distinguished recognition to all actors, dancers and musicians, provided they became loyal servants of the Soviet state and system.

Price Paid for the Gift of Art

Tickets for the opera were given to trade unions, university students and school children, and these at least were exchanged for good measure, though other tickets for food and clothes were often worth no more than waste paper, because of the scarcity of food and the lack of clothing.

In the imperial box, where the royal family had sat so often, glittering with orders and jewels, there were long-haired men in red shirts and short-haired women in cheap blouses leaning over the velvet balustrade, above which the imperial eagles were hidden under the red flag. In the world of art, anyhow, Communism had brought a great gift to the common folk, though at a tragic price of blood and tears.

A Usc for Pious Legacies

Next to the Great Imperial Theatre in interest and reputation is the Moscow Art Theatre, which, all through the time of famine and direst poverty, upheld its great tradition of artistic production, brilliant acting and original genius.

In the old days Moscow was a great treasure house of pictures, jewels and precious works. In the Historical Museum and Imperial Rumyantzov Museum and other art galleries they had magnificent collections of early paintings, manuscripts, printed books, costumes and antiquities. As far as I could discover those treasures still remain untouched, although many of the galleries, like those in the Kremlin, were no longer open to the public.

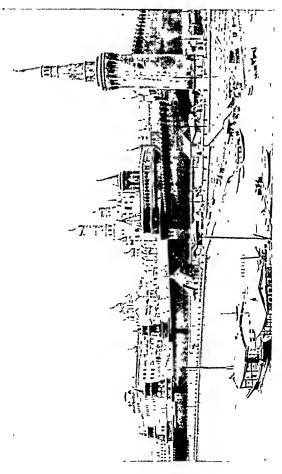
But it is probable that the greatest wealth in the form of precious stones has gone from Moscow for ever and from the buildings which they adorned. In all the great churches of Moscow, like the Cathedral of the Assumption in the Kremlin, and the great Church of the Saviour outside the Kremlin, commemorating the victories of 1812, the holy icons or pictures were plastered with every kind of precious jewel, some as big as eggs, and encased in gold or encrusted with pearls and diamonds and rubies and sapphires, as the gifts of emperors and empresses, princes and princesses, and the rich aristocracy, who were generally as pious as some of them were cruel.

Fantastic City of Ghosts

The temptation of so much wealth could not be resisted by the desperate and poverty-stricken rulers of the Kremlin, and they laid hands on this ecclesiastical wealth. If it went to buy grain for the famine-stricken millions of the Volga, as they alleged, the loss of all those gleaming stones can hardly be begrudged. I for one have no proof to the contrary, though doubts creep in.

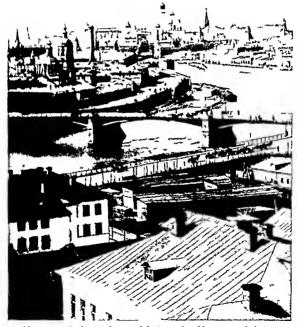
It will be seen that the Russian Revolution has left such a mark on Moscow that people who knew it before will hardly recognize its present ways of life. Most of the great mansions have been stripped, although I was billeted in one which had been preserved in its old state of magnificence and slept on a truckle bed in a gilded salon filled with statuary and handsome furniture, with pictures by Corot and other great masters still lianging undisturbed on the stately walls.

But the general view of Moscow remains unchanged, and by day and night I wandered through it with a sense of enchantment, because of its fautastic beauty, and with many a thrill of adventure, because of old and recent history which makes this city ghost-haunted to all who remember the drama of its life.





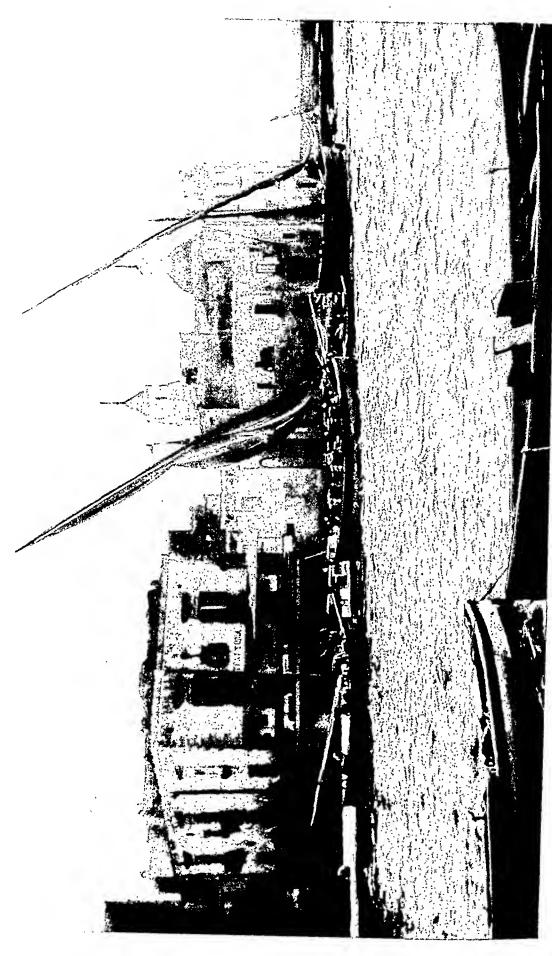
Moscow. At the south-east end of the Krasnaya or Red Square is the Cathedral of S. Basil with its fantastic domes of rainbow hue



Moscow Rich in colour and history the old portion of the city stands on the north bank of a fan like succe of the river Moskva

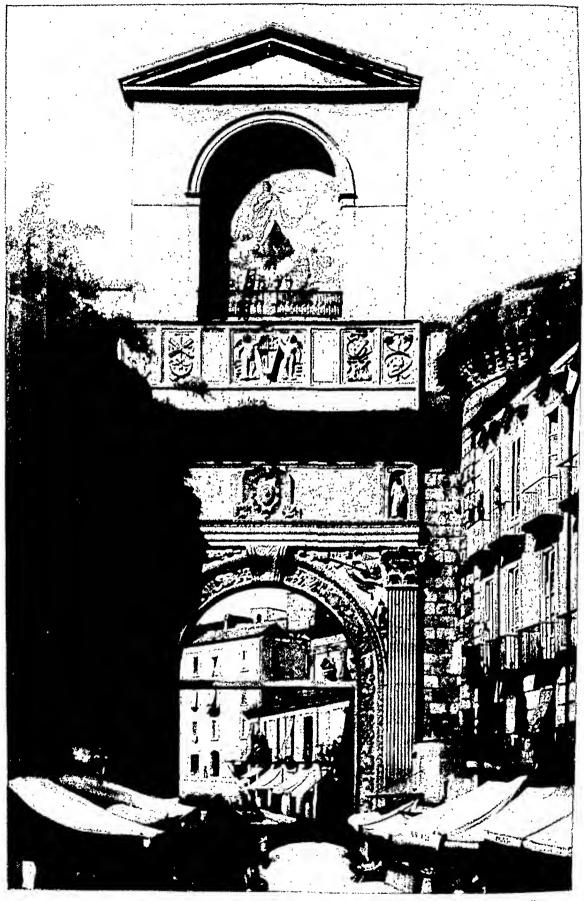


In the distance by the bank of the Moskra rise the domes of the Church of the Redeemer with its calls sheathed in marble



NAPLES. The huge yards and lateen sails of the Neapolitan fishing vessels are silhouetted against the faint glow of the sinking sun that touches the sky above the harbour buildings with a flush of colour





Naples. The sculptured Porta Capuana, flanked by two round towers, is one of the finest Renaissance gateways in existence

NAPLES

Beauty & Squalor of the "Siren City"

by George Sampson

Educationist and Man of Letters

TOOKED at from the cape of Positipo, Naples is revealed as a great sweep of dense habitations, begirt with hills and closely embraced by a sea of incredible blue Within an inner curve of this great bow rises a mountain, low, solitary, symmetrical. It seems cunningly placed yes and cunningly shaped, with its low, gradual, fertile slopes upon which the villages gleam white Sunly this mountain is part of the beauty I But over the cloven summit a light cloud streams impalpably away, yet never passes, and never will pass, for it comes from the heart of Vesuvius

Naples stands upon threatened and unquiet ground. At one end is Vesuvus with its terrible listory; at the other the smoking soil of the Philegrean I ields. The wooded height of Positipo, benutiful initied and beautiful for what it reveals, is a mass of volcanic rock, and out at sea heis hittle Ischia, rent and ravaged by carthquake. Naples itself has suffered little; but some day the world may tremble at a disaster more terrible than that which whelmed Messina.

Place of Bewildering Noise

No fear of an unknown future distresses the Neapolitan He is a child of the sun, impulsive gay, content with little His etty, which looks so fair from the sea, is less fair when we plunge into its nurrow, teeming streets, like deep ravines cut into chiffs of towering habitations. It is a linge, tortuous, bewildering place, one of the noisest on earth, and silent, it would seem, at no hour of day or might. In Naples we seem to have left Europe behind. When the hot drys come, the people forsake their rooms and live in the streets.

cooking over little stoves with a spark or two of chircoil and performing the most intimate toilet operations upon their young in the full blaze of day

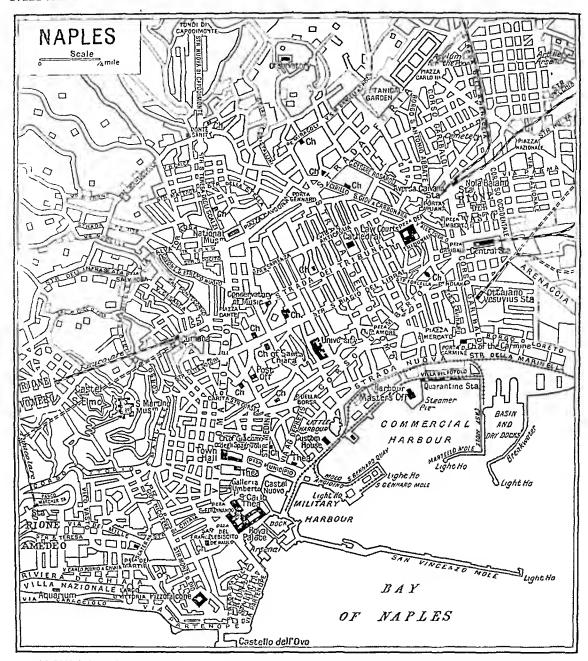
Milk Direct to the Customer

There a small boy, with the engaging confidence of a puppy, runs up to a tournet, and stroking his arm, begs irresistably to be allowed to look at his camera. Even within a hotel of midubitable respectability, a ravenhured chambermaid suddenly shatters the conventions by impulsively stroking the arm of a fur-haired visitor and exclaiming, "Lei ha i belli capelli."

In the morning and evening the milkinan pays his calls. He wheels no "pram," he drives no "float". No boy distributes cans or hygiente bottles. The Neapolitan milkinan comes round with his herd of gorts, and milks them into vessels let down by strings from the windows of the upper floors.

In the hotel region a few cows with their attendant calles may be seen Once the goats used to mount the staurs and be miked at the doors, but even Naples at last found some disagreeable moonvemence in that, and "Nanny" now functions in the streets

The history of Naples is perhaps more dreadful than that of any other Italian city—sordidly and secretly dreadful We need not dwell on the earliest days Perhaps they were happy, for they have little history that we know Some seven centuries before the Christian era a bind of Greek settlers founded the city that was to become famous as Cumae, north of Cape Miseno From Cumae subsidiary colonies were formed on the adjacent bays of Pozzuoli and Naples, the latter being named



JOSTLING STREETS AND AMPLE HARBOURS OF NAPLES ON ITS BAY

Parthenope, from one of the Sirens, whose body was found on the shore.

By the side of this settlement there grew up in later years Neapolis, the "new city," the old being Palaeopolis; but Parthenope, the "Siren City," was its name for centuries after in the hearts of its lovers. It is as "sweet Parthenope" that Virgil, who lived and was buried at Naples, pays it his tribute at the end of the Georgics:

"Illo Vergilium me tempore dulcis alebat Parthenope."

In the wealthy days of Rome, Naples and its neighbourhood became the favourite site for the pleasure-seats of the great ones, and it was to the villa of Lucullus on Posilipo that the victorious Odoacer banished in 476 the contemptible Augustulus, last of the western Caesars. Even till that date Naples had cherished the language and manners of a Greek colony.

We called the history of Naples "dreadful." Perhaps the best justification of the epithet we could give would be to take the reader into the Piazza del Plebiscito, where the royal palace turns

NAPLES

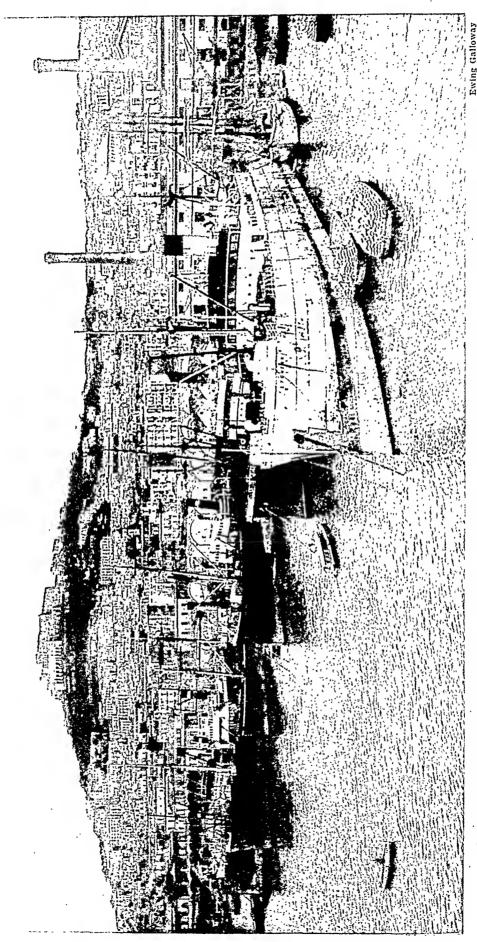


LOOKING UP THE STRADA DEL QUOITO FROM THE STRADA NUOVA
The Strataghthy envestment my the Strata shora to the Strata Lorizon list beyon the Strata
feet little at teach the cashe teal. The dirth was a little at the size and and list be from h Gotton
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tent of Change of the main if he from his will be set it but the fact and of the size of the from his direct
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NATIONAL MUSEUM AT THE NORTHERN END OF THE VIA ROMA

To the west of the Pairsz Casour rises the National Susseum, erected in 1586 as a barracks used in the seventeenth century as a university and turned into a nusurum in the eighteenth It contains one of the finist collections in the world and includes the Lompean antiquities bronzes from Herculaneum and the Larmese collection. In the west wing is a gallery of the girst Italian masters.



Naples has been so lauded for its beauty that the commercial side of this great city has been overlooked. Stately liners and weather-beaten tramps crowd the fine harbour and gaunt chimneys disfigure the appearance of the town, which manufactures textiles and perfumes. Naples has an almost Eastern appearance owing to the flat roots of the houses. On the left of the photograph is the Castel Sant' Elmo behind the monastery of San Martino. It was built in 1343 with mighty walls and the fosses hewn in the solid tuffstone rock. The fort is now used as a military prison. TOWN OF NAPLES RECEDING TO SHIPPING BY THE QUAYSIDE WITH

its back on the ancient castle of the Angevins and faces the semicicle formed by San Lancesco di Paolo

There at intervals along the front of the palace stand eight statues, representing cubit centimes of Nerpolitan monuchy. The first statue is Robert the Norman, the second is Frederick the German, the third is Charles the Ancevin the fourth is Alfonso the Spaniard, the fifth is Chules the Holy Roman I mperor, the sixth is Charles the Bombon. the seventh is Joachun Murat, Napoleon's cavalry leader, and the culith is Victor Emmanuel, first king of Italy That is to say, from the twelfth to the unreteenth century Naples was ruled by fortign sovertiens, some of whom were the vilest of their limit

Nantes' Melantholy Story

Its history under the Spanish vicerovs is a melanel oh, story of absentee land. lordism and rick renting. The various revolutions led by Neapolitan patriots met the usual fate at the hands of entrenched tyruiny, but judgement could not be delived for ever, and the attocities of "Bomba," l'enhand II. exposed by Gladstone to the execution of a comparatively enalized world, ludicions and the futility "Bombino," lus son, at last brought the kingdom to an end in 1861, when Gambaldi annexed it to Italy.

The least pleasing incident to Englishmen in the story of Naples is one associated with the great name of Nelson Everybody knows about the communic passion of that great sulor for the frail and lovely Lady Hamilton, wife of the ambassador to the court of Ferdmand I. That court, the real ruler of which was Perdinand's Austrian wife, the dissolute Marin Carolina, was naturally the most violent foe of all liberal and revolutionary doctrines, and no one was more indiginantly aristocratic than the former domestic servant who was now wife of an ambassador and bosom friend of a gueen

During the victorious progress of the French through Italy the court fled to

Pakemo under Nel on's protection and Naples fell to Champtonnet's forces The Newpolitan Liberals welcomed the invaders as the apostles of political blerty, and southern Italy became the Parthenopeau Republic But Lanch soon made themselves imporulir and moreover, were wanted nearer The new republic surcere and luch minded leaders could not defend itself and made terms with Cardinal Rufto leader of Lerdinand's forces, and Captum Loote who com manded the Scalions off Naples

Another Side of Nelson

But suddenly Nelson arrived, acting as agent for the absent court annulled the armistice and demanded the uncon ditional surrender of the leaders of them were executed One Admiral Carrectolo was suzed taken on board Nelson s ship tried by a court martial of his enemies, sentenced to death, and hanged from the yard arm of the Minerya His body ignomini ously eart into the sea, was washed up on shore some time after. Apologists for Nelson try hard to find natigating explanations and even justification, but surely the most ardent hater of democracy must feel a front distaste for the indecent zerl with which the hero of the Nile made hunself hangman to the dratiest little court in Europe

Sixty Years Atter

It is wrong to say with the apologists, let us forget Naples and think only of Trifagar. It is remember Naples in 1799 as a warning; but let us remember Marsala in 1860, when Marryat and Winnington-Ingram, on the Intrepid and Argus, passively, if not actively, made possible the landing of the Thousand Guitbald, at least, never concealed his gratitude.

Naples, with its population of 772,000, is the first city of Italy, ranking just before Milin with its 722,000. Liverywhere there is life. Naples has a great museum, but it is not itself a museum tet us consider its outward features.

What strikes the visitor is, first, the enormous size of the city, and next the absence of any definite, undoubted centre. Naples has many squares, but Plebiscito, Municipio, Borsa, Dante, Mercato and Garibaldi all seem to be sporadic open spaces, crowded and noisy like the rest of the city, but not centres of life. Surely there is no city of its size so lacking in a localised "West End." The "West End" of Naples breaks out in patches all over its vast urea, and is everywhere neighboured by shabbiness and squalor. In Naples, what corresponds to London's Piccadilly and Shaftesbury Avenue, Park Lane and the Seven Dials, are not merely neighbours but mixed up together. Actually the most vital centres of life are centres of poverty rather than of wealth.

To feel the pulse of the city you must go among the crowds that surge about the Porta Capuana, the Porta Nolana and the Toretta. Here, indeed, is Naples—the Naples that revolted with

Masaniello, adored him, deserted him, kicked his body about the streets and then lamented him, all in the space of a few days. A fascinating city, but dreadful. It is the one great Italian city through whose darker regions the visitor feels unwilling to walk alone at night. It is the city of dreadful animals, of people to whom pity seems incomprehensible; though happily the R.S.P.C.A. is doing something to prevent the public ill-treatment of horses and donkeys. It is also the city of the Camorra, that mysterious, intangible body, the power of which is denied, derided, doubted and dreaded.

Of this, as of the even more intangible Mafia of Sicily, the foreigner cannot speak and need not try to, for the activities of neither will ever touch him. It is worth noting, however, that the Camorra is, politically, a Bourbonism of the gutter, and in its combination of politics with crime, looks back to an evil past. It helped to do some of Bomba's



Ewing Galloway

COPPERSMITHS AT WORK IN THE STREETS OF NAPLES

The narrow, spurfiel side streets of the medieval city afford vivid, interesting studies of the humbler the cf Nargles, for eareless indifference to publicity stamps the Neapolitan poorer class. Men and weren may be the working before their doors, and coppersmiths, shoemakers, barbers ply their trader regardless of the public gaze; to the true-born Southerner there is nothing like "open air"



FISHERMEN MAKING FISH-TRAPS ON THE WATER FRONT AT NAPLES.

Nayles has losh a nival and a commercial fast-our, protected by moles and brothwaters and prostrong which and dry do do ks. The of termen, when they are not out in their beats, it on the
harlour walls and make their traps of ration and rother from an are old pattern. The harbour is
almost a ninch remonal ber its discouring smell as the bay is famous for fits beauti

dirtiest work. It resisted Garibaldi, and it is still the enemy of sweetness and light in the whole of social life,

But let us turn to something brighter. Let us go to the Piazza del Plebiscito and take n seat at one of the calés. Here il anywhere is the public centre of Naples. We face the Royal Palace with its statues of the dynasties. Behind us is the semicircle of San Francesco di Paolo. To the left, just round the corner from the palace, is the little Piazza S. Ferdinando, with the great San Carlo theatre on, one side and on the other the Galleria Umberto I. with its cupola, one of those lofty glassrooded streets of shops, of which Genoa

and Milan possess better examples. To the left of San Ferdinando we see the beginning of the most important street in Naples, the Via Roma, formerly called from its Spanish builder the Via Toledo, and still generally known as such. The Toledo in Naples is as narrow as the Corso in Rome. It runs, with a scarcely perceptible curve, from the Royal Palace direct to the Capodimonte palace on its hill a mile and a hall away.

The crowds in this narrow thoroughfare pass belief, but up it we must go, riding or walking, for half-may along is the National Museum, one of the greatest museums of Europe. You notice that

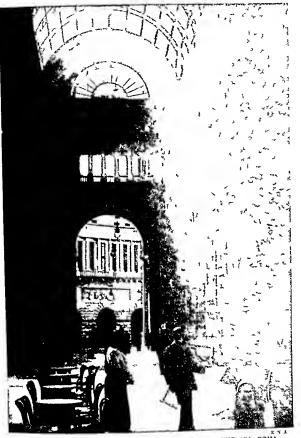


Herbert Felton

ONE OF NAPLES' NARROW STREETS BENEATH HIGH ARCHES

In the commercial quarter of the city, on the eastern ridge, are the alleys of the medieval town. The Strada Santa Lucia is a centre of the noisy, dirty life of the poorer classes, but there are no definite borders between the quarters of the rich and poor as these well dressed passers-by suggest. Since the cholera epidemic of 1884 much has been done to improve the densely populated slums

NAILES



GALLERIA UMBERTO PRIMO A FINE ARCADE NEAR THE VIA ROMA
This arcade was built in 1887 go and is in the form of a Lat nicross. The shorter nales 1835 yards in length and has its main entrance in the Strada San Carlo the longer in a stretching from the Valength and has its main entrance in the Strada San Carlo the longer in a stretching from the Valength and has the strada Municipu is 169 yards long. Above the intersect on a dome rises to a height of 185 feet. The interior of the arcade is decorated with sculptures giding and stucco

1

all wear a charm against the evil eye. Even the towering harness of the horses bears its horn of protection. From the Toledo deep ravines branch out between dwellings-the narrowest lofty streets, festooned with the eternal washing, and past the wit of man to number. Above them rise the hill on which stand the museum, formerly the monastery, of San Martino, the Castel Eant' Elmo and the new Vomero residential quarter, where it must be pleasant to live. A kindly funicular will presently take us up, but first let us return to our table in the Plebiscito.

From the Café Table

Away to the left behind us runs another of the characteristic streets of the Chiaia, which begins Naples, tortuously, breaks into a flight of steps leading up to Santa Caterina, and after some adventures emerges as a broad road along the sea front, till it buries itself in the "Grotto" or tunnel under Posilipo. But between the Riviera di Chiaia and the sea lies a long, narrow park or garden called the Villa Nazionale, containing another of the sights of Naples, the Aquarium. Bounding the park on the seaward side is the broad Via Caracciolo, the great parade of Naples, where everybody drives and meets everybody else. Thus the Via Caracciolo, the Villa Nazionale and the Riviera di Chiaia together form a splendid esplanade or sea-front.

Towns Clustered Round Vesuvius

At one end of this superb sweep of open space rises the glorious wooded promoutory of Posilipo; at the other is the height of Pizzofalcone with the Santa Lucia hotels round its base, and, just off shore, the Castel dell' Ovo, where Dr. Martino Fusco was supposed to have found the lost books of Livy. In the near distance rises Vesuvius, and gathered on the shore about its base are Portici and Resina, with Herculaneum buried in tufa beneath them, Torre del Greco, Torre Annunziata and Castellamare. Beyond stretches the

perinsula of Sorrento, with Capri lying close by. It is, as we have said, a superb and glorious sweep of splendour in the light of the southern sun.

But there is another Naples. The great curve of coast does not run from Posilipo to Vesuvius without a check. The height of Pizzofalcone, Santa Lucia and the Castel dell' Ovo make a little promontory that breaks the curve in two. Coming along the esplanade from Posilipo to Santa Lucia, we see a splendid city on the sea. We round the cape and suddenly we are at a great port. We are so accustomed to thinking of Naples as a spectacle that we forget its status as a seaport, the house of call for liners going to or from the East.

From Naples you may take a great liner to Egypt or India. But what you should certainly do is to take one of the miniature liners, handsomely and comfortably appointed, that will carry you in a night-passage of twelve hours to Palermo, best of gateways into Sicily.

Naples as a Port of Call

The great harbour of Naples presents to the landsman's eye the usual tangle of breakwaters, lighthouses, masts, funnels and cranes, together with boats large and small that get in each other's way, and threaten their occupants with inevitable death, from which, however, it appears that they can be saved by the greatest possible quantity of vociferation from all concerned and unconcerned, especially the latter.

But let us approach the port from the landward side. To do this we will go back to our old table in the Plebiscito.

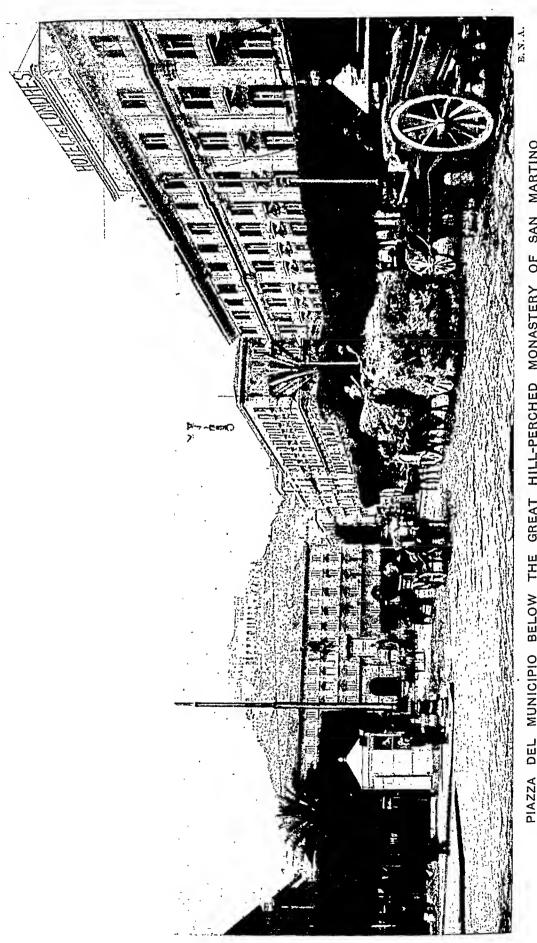
Here again are the Royal Palace and the little square of San Ferdinando. This time we pass by the Via Roma and the entrance to the Galleria, and go round the San Carlo theatre. Suddenly we are face to face with another of the great sights of Naples, the Castel Nuovo, founded by the Angevin kings, with its sinister round towers and the decorated arch of later years between them. Passing the castle we reach the great open space called the Piazza Municipio.

VAPIFS





MAGNIFICENT SANCTUARY FACING THE PIAZZA DEL PLEBISCITO
This large 1 11 ng is the clurch of Snn Irra creed of lands errects in 1872 31 by Ferdinand 1 and
designed by 1 Blancht in initiation of the Lantheon at Rome 12 mes we dome and almost sem
designed as the state of the state



At the commencement of the Molo Angioino lies the Piazza del Municipio in which is an equestrian statuc of Victor Emmanuel II. designed by Franceschi. At the end of the Piazza stands the Municipio or town-hall, erected in 1819-25. Immediately adjoining the Municipio is the church of Giacomo degli Spagnuoli, built by Don Pedro de Toledo in 1540. The suppressed Carthusian monastery of San Martino forms part of the fortress of Sant' Elmo and was begun in 1325, but was completely rebuilt in the seventeenth century. The interior of the church has fine marbles and magnificent paintings, and certain rooms have been turned into a museum MUNICIPIO BELOW THE GREAT HILL-PERCHED MONASTERY OF SAN MARTINO

In the distance at one end of this oblong prizza rises the hill of Smit' Elmo. At the other rises the apparatus of the port. I rom the iniddle goes the street through which your cab bumps you over a paying of hava stabs apparently put down in the days of Ponpeu and not touched since, intil it bumps you muto the station a mile away.

To reach the port, however, you do not touch this street, but go to the end of the piazza, and presently you find yourself in the Strada Nuova, with warehouses, trains and lorries on one side, and on the other a rookery of ravine-like streets. The Strada Nuova follows the line of the port and brings you at last to the Church of the Carmine and the Piazza del Mercato, of bloody memory. Not far away is the station for Vesuvius, and here you will find a cab that will bump you through the Porta Nolana to the cathedral with its chapel Thence you should of S Januarius let yourself be bumped to the more important church of Santa Chiara

Work of Architectural Assassins

On the whole, however, Naples is disappointing in its interiors. If you are very assidious you will, of course, visit every one of the six hundred clurches, but if, as is probable, you confine yourself to a few of the important, you must be prepared to find that the beauties are details that must be sought for.

In the eighteenth century a passion for "clegance "seized upon mmny people in Italy, and they hired architectural assassins who went about killing beautiful ancient churches and turning their dead bodies into stage settings for the first act of Puccini's "Tosca". The evil these villains & rought upon the magnificent Arabo Normin cathedral of Palermo is enough to draw shouts of execration from lovers of great architecture. Thanh, goodness, they left Monreale alone.

Nearly every important church in Naples has been spoiled by sham arches and 'Corner House' marbles stuck on to the main fabric To get a glimpse of the original foculty you must, as a rule, retire to crypts and cloisters, for the sulgarium naturally would not plaster their precious "make-up" over parts that did not show. Nevertheless, there are many beauties that the patient may find among the fripperies of the Neapolitan churches. The one time eccles-instical building that must not be missed is San Martino up on the hill by the easile, not only because it is now a museum (a very poor one), and has beautiful cloisters, but because its belveden, gives a wonderful view over the city and its environs.

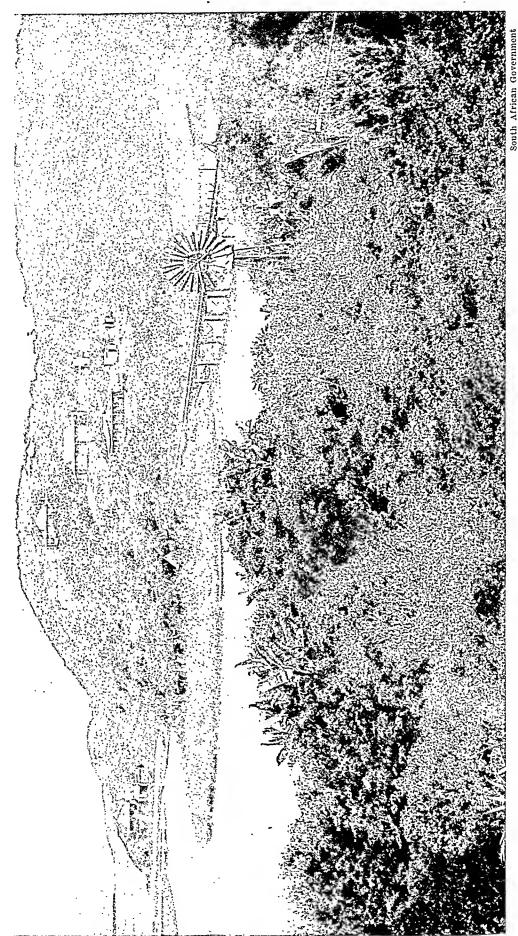
Desceit of One-Day Tourists

The two main interiors of Naples are the Aquarium and the Museum former is small delightful and of the first importance scientifically Museum is the despur of those who try do 'a city in a day. The various collections are housed in a huge building. and almost every tling in it is important There are masses of treasure trove from Pompen and Herculaneum, there are such world famous things as the Farnese Bull the Farnese Hercules and Juno, the Venus Callipyge, the Capuan Venus, the Narcissus the Dancing Faun and the great battle mosaic, there are portrait busts, bronzes vases, gems and coins There is an enormous library, and when you have exhausted these and yourself, there are twenty-four rooms of important pictures awaiting inspection

The Man who saw Nantes

And beckoning the visitor outside the city are the Phlegrean Tields Vesuvus Pompei, Soriento Capri and across the peninsula Amalfi Soriento and the glorious temples at Paestum The famous proverb must surely have originated with some desperate tourist who trying to do Naples in a day, was found gasping with his latest breath "See Naples—and die"

Well, at least half the injunction is important. Die we must, whether we will or not, therefore, while it is still in our power, let us "see Naples"

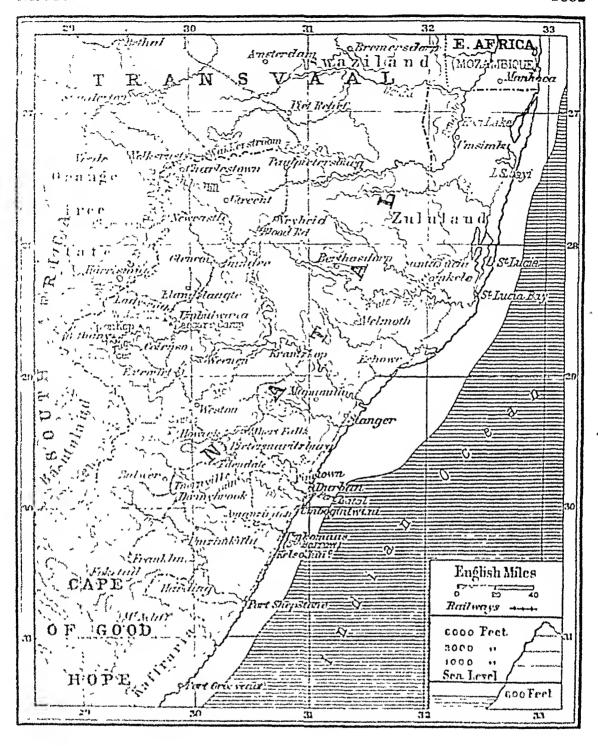


Amanzimtoti, a native word, meaning "sweet waters," is a beautiful little seaside resort about 18 miles south of Durban. The railway line from Durban to Port Shepstone runs along the coast, erossing several salt water lagoons. Trees and grass grow right down to the margin of the shore, and the soil above the sand is very rich, being well adapted for the cultivation of sugar. At Umbogintwini, three miles north of Amanzimtoti, is a great explosive factory where some fifteen hundred hands are employed. The scenery along this stretch of coast, which is studded with villages similar to Amanzimtoti, is beautiful though lacking in grandeur BUNGALOWS IN A LOVELY SETTING AT THE SEASIDE RESORT OF AMANZIMTOTI

NATAL

The Garden of South Africa

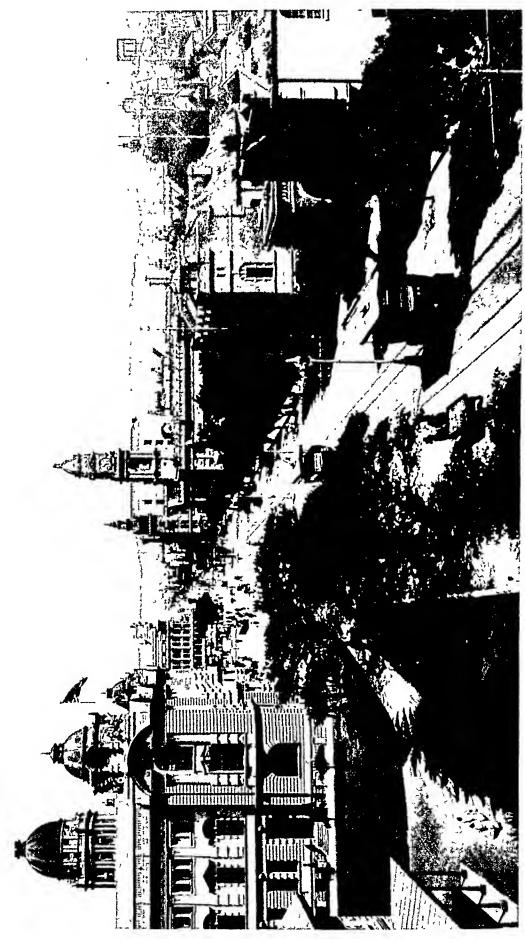
by Evans Lewin



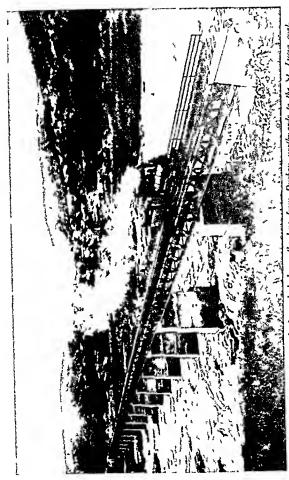


NATAL From the lower above the town-hall one can view Pietermarileburg spread out within its great amphitheaire of hills Potes receit is part 353 and 2528 both Alteas Governoem

2853

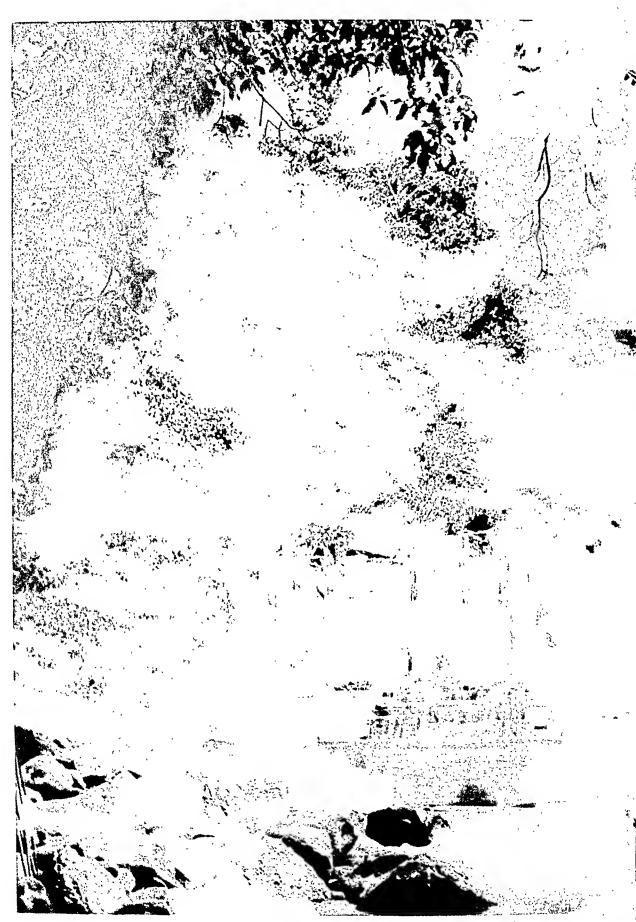


On the left is the dome of the In West Street, Durban has a thoroughfare it may well be proud of. On the left is town-hall, on the right the Post Office clock-tower, and beyond the hills of Berea NATAL.



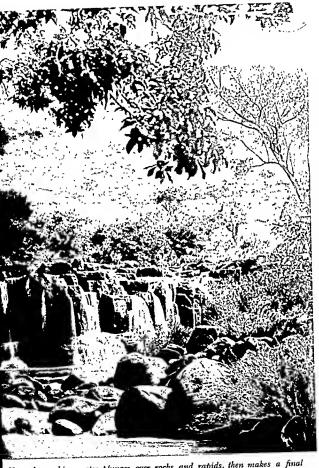
This great railingy bridge, which bears the line from Durban worthwards to the M lucia coalfield, spans the impetitions flood of the Tingla River war its outlet who the Indian Ocean

NATAL

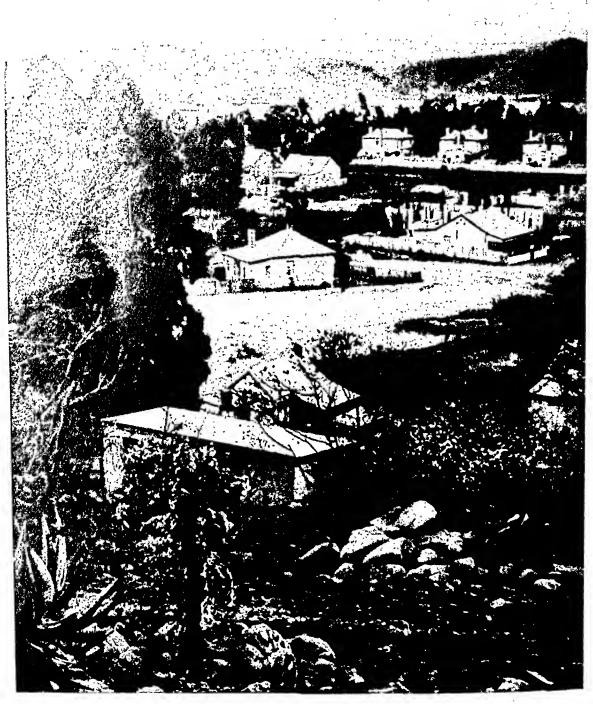


NATAL. Not far from the little mission station of Edendale are the beautiful Gordon Falls that break the course of the Umsindusi River.

2856



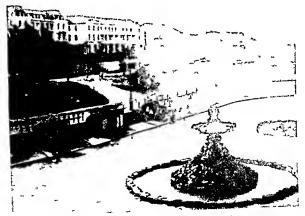
Here the rushing water plunges over rocks and rapids, then makes a final leap down a terraced scarp in a dazzling array of sparkling cascades 2857



NATAL. In the distance we see Wagon Hill and the flat crest of Lombard's Kop beyond, whence the Boers bombarded Ladysmith



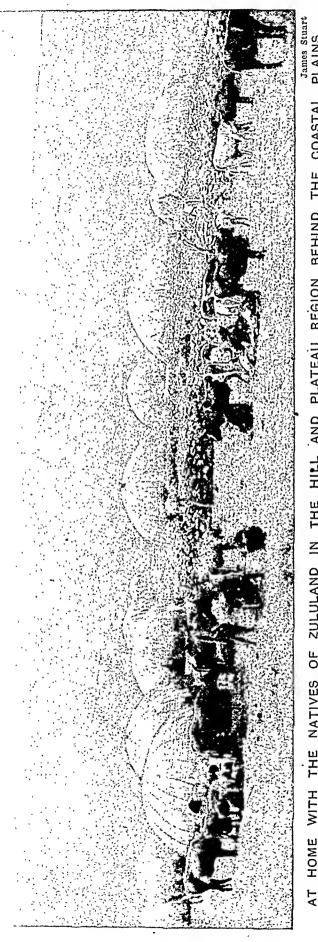
Before the splendid Pro initial Council building in Pietermarilaburg there has been erected a white marble statue of Queen Victoria



NATAL Ocean Beach is Durban's chief altraction and a swimming bath, gardens and esplanade have replaced the sand dunes 2859



NATAL. Dim gorges, their black mouths almost choked by great boulders, bite deep into the sides of the mighty bastions flung out by the main bulk of the awesome Drakensberg Mountains



COASTAL BEHIND THE HILL AND PLATEAU REGION Z ZULULAND which was annexed to Natal in 1897, here a kraal, or group of huts built r OF THE NATIVES inhabitants of Zululand, attle, sheep and goats;

higher country the vegetation is more distinctly South African, but owing to the generally abundant rainfall over large districts, averaging from 38 to 40 inches in the year, there is a greater permanence of verdure than is general in most parts of South Africa.

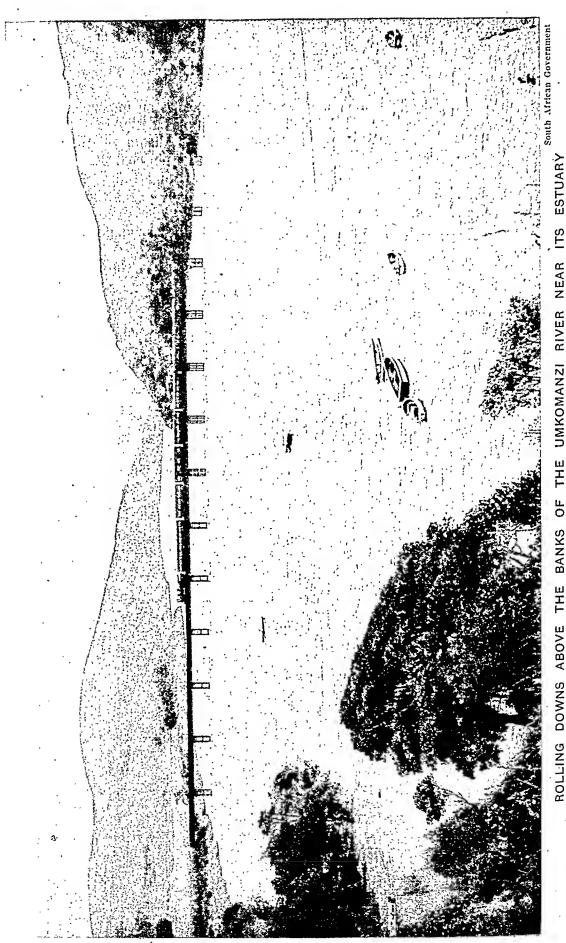
The country, however, is not heavily timbered. There are large areas in which, partly owing to disforestation, trees are very scanty, or only of the stunted variety classed as scrub.

There are, however, certain heavy timber forests containing hardwoods, but chiefly yellow wood, Podocarpus, which, though harder than pine, is used wherever imported pine cannot be obtained. The indigenous trees along the coasts do not reach any great height, averaging from 30 to 60 feet, but . they are generally bright with flowers and are a very pleasing feature of the landscape. But in the upland forests in the kloofs of the mountains and more especially on the southern slopes catching the rains from the Indian Ocean, they are of a larger and more valuable kind, and form a natural protection to the soil as well as. affording shelter to game.

Natal is essentially a plantation country. The sugar industry alone supplies the whole of South Africa with this commodity, and very large quantities are exported to the markets of Europe. The area of profitable cultivation



TOWN-HALL AND MUNICIPAL BUILDINGS IN DURBAN
Durl an 'Natal's commercial capital lies on it e-northern at one of a small almost that look od bay
a stife connected by rail with better suitable grant the Transversal. It is an interest not now wonder
folly be proved since it was first tail out by the Dutch in 1834 and contains a hands one to su half
with minicipalor ers cyneated in 1930 a Pullie litrary, mesum race course and deligibility parks



viaduct of fifteen spans, each of which measures 55 feet. There is good fishing and boaling on the river, on the south bank of which stands the little township of South Barrow. An attempt was made at one time to convert the mouth of the river, which is navigable by small boats for a distance of eight miles, into a harbour, but the works have been converted into a marine parade and a safe bathing-place provided Half a mile above its outlet into the Indian Ocean the river is crossed by The village of Lower Umkomaas lies on the Umkomanzi about 31 miles south of Durban.

2865 NATAL

territory from Lourenço Marques to Johannesburg, the best and most direct means of access to the riches of the Witwattersrand. The main line passes through Pretermaritzburg and Ladysmith on its way to the frontier, which is distant about 300 miles from the port

In addition to this railway there is a line running westwards from Ladysmith to Harrismith in the Orange Free State and continued theuce to Kroonstad, about 215 miles from the junction, and a coastal line from Port Shepstone to the neighboridood of St. Lucia Bay in Zuhiland. The latter railway passes through the cluef sugar districts.

There are also several branch lines serving the culliery districts as well as a railway running southwards from Pietermaritzburg and across the borders of the Cape Province to Franklin, which was built in order to avoid the danger of cattle from Natal taking East Coast fever with them when trekking into Kaffraria. Beyond the northern frontiers of Natal is the native state of Swaziland, a country about the size of Wales, under the direct control of the Colonial Office. It is an admirable ranching country, and is also beheved to be lighly mineralised

A Country of Vivid Colours

It is impossible to visit Natal without begin struck by the wealth of colour seen on every hand. The garden province of South Africa is essentially a country of colour. Apart from the bright and attractive colours of the trees and flowers, already alhided to, and the striking beauty of inoring and evening skies with their medinable charm of the interplay of light and shade upon the mountains, the glow of evening and the deep impressiveness of the tropicat night, there is a wealth of colour to be seen on every hand, supplied by the people themselves

In the towns the rickshaw, drawn by Zulus often fantastically arrayed—fortunately not in European clothing as it so frequently the case in other towns in Africa—with horns and dancing feathers

on their heads, has been adopted as a means of conveyance, and takes the place of the London tax. The streets of Durban are frequently a kalendoscopic mass of moving colour, and form a delightful contrast to anything that can be seen in any European city

More Indians than Furoneans

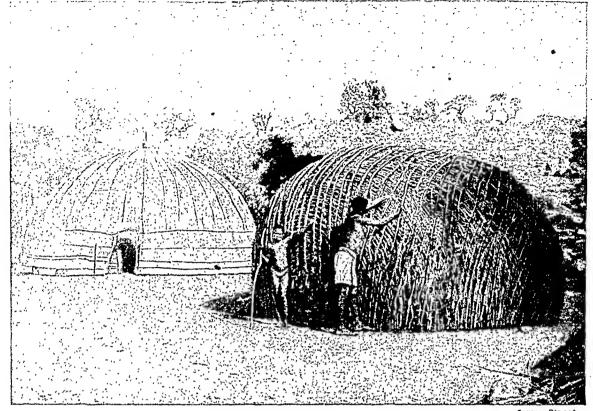
The large Indian population, originally imported to work on the singar plantations, though now nearly half of the Indians of Natal have been born in the country, adds a touch of the East to an essentially African scene. These people number niver 140,000 and are a larger community than the Europeans. They are engaged on the plantations and in agricultural work, but there are also a large number of small traders and even some substantial micrehants, as well as numerous. Indians employed on the railways and in businesses as clerks, and in other responsible positions.

The trade of Natal is concerned chiefly with the products grown on the farms and plantations and the export of coal, both from the Transxaal and from Natal itself. This trade converges at Durban, which is the only considerable port visited by ocean liners and large steamslops, its situation being admirable for commerce with all parts of the Indian Ocean, the east coast of Africa, India and Australia.

Very large quantities of coal are exported for bunkering, and also for cargo to Mairitius, Egypt, Singapore and more especially India, where South Alrican coal is in great demand. The presence of this prime factor of industrial expansion is of much importance for the future of Natal.

Manufactures of Foodstuffs

Manufacturing enterprise up to the present has been confined chiefly to food products, such as biscuits, confectionery and jams, and similar, articles; soap, candles, matches and boots and shoes, articles for which there is a local demand that can now be satisfied by the local manufacturers.



James Styart

TYPE OF HUT MOST COMMONLY OCCUPIED BY NATIVES IN NATAL
The framework of the native hut lasts much longer than the covering grass. Consequently when the
owner finds it necessary, for sanitary or other reasons, to vacate the site, he frequently, with the assistance of his neighbours, carries the framework bodily to the new destination. The white man's mode of
living and contact with civilized life have but little influence on the natives' social customs



James Stuart

MAT-COVERED ZULU KRAAL IN THE NATAL "THORN COUNTRY" In the "thorn country" the abundance of common wood permits of the fences encompassing the native villages and cattle-enclosures being constructed of wood instead of stone; the outer fence serves as a protection against predatory animals. The natives are singularly expert in providing for their own limited needs and comforts, and the huts are covered with watertight mats, the handlwork of the women

From Glencoe to Paulpietersburg and from Newcastle to Utricht, covering the great coal area, there are ample opportunities for undustrial enterprise Many waterfulls are waiting to be har nested Within 20 miles of Pieternintitzburg are three large ones and those at Howick are already being utilised for electric energy. With this abundant supply of water-power the rails us of Natal are being electrified

Durhan, the largest city of Natal, is beautifully situated on Port Natal a large land locked harbour entered by a narrow channel between the Point and the Bluff, forming the only important anchorage between Past London and Delagor Bay. The obstructions caused by the bar at the entrance to the harbour have been removed and the port is open to large steamships which he alongside the wharfs creeted on the right band side of the harbour. The inner basin covers an area of eight square miles, and the depth of water near the wharfs is from 23 to 34 feet

The situation of the city along the curving shores of the harbour, with its beautiful tree planted esplanade is particularly pleasing, especially when viewed in conjunction with the surrounding hills, known as the Berea, whose slopes are covered with charming villas and gardens

The principal public building in the city is the Town-Hall and Municipal Buildings, erected in 1910 and surmounted

NATAL: GEOGRAPHICAL SUMMARY

Natural Division Urom the interior plateau of Southern Africa the Ind drops steeply by a scarped edge, here the Drakensberg Mts to a constal lowland Natal is one of the widest and most accidented sections of the east coast lowland, and with fairly definite boundaries to south and north forms a physical region with sharply entrenched rivers
Climate and Vegetation With summer

rains and high summer temperatures the climate is east coast marginal to the great ocean (Cf Florida, French Indo China, Urugury.) From the luxuriant plant life of the coastal swamps inland the vegetation changes to forest on the slopes The rainfall suffices to maintain permanent vegetation

by a dome 157 feet in height. This builling contains a hall capable of holding some 3,000 people and it is the centre of the municipal social and literary life of the inhabit into There is a fine library and a small museum and art gallery in the same building eloquent testimonics to the general culture of a European population of The coloured population of Durban numbers 80 000 including about 25 000 Asiatics Beyond the harbour is the Ocean Beach, which has been converted into a pleasant senside react with spend bathing places in ide from sharks at forms one of the prine, al attrictions of South Africa

Pretermaritzburg the capital of Natal is a quict residential city lying within easy reach of much of the timest se n ry of Natal As it is surrounded by meun ains it is a very attractive centre and the climate generally is very healthy There is a fine town hall and numerous

government buildings

For a small provincial capital with a European population of only 18 000 Pietermaritzburg is well supplied with the amenities of social and literary life. including a good museum, library and Botante Gardens

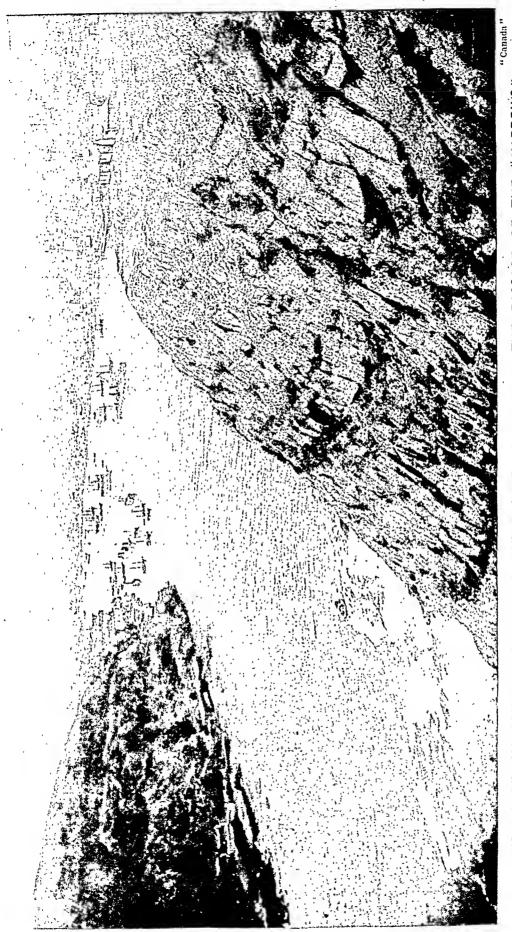
Elsewhere in Natal there are numerous small towns but in a country with so small a white population these do not possess any special architectural features, though they are frequently distinguished by beauty of situation

Products Coal from one of the most valuable coal fields of the Southern Hemisphere (Cf Newcastle in New South Wiles) Plantation crops—cane sugar, black wattle tea (Cf New South Wales and Queensland)

Communications Overseas traffic con centrates on Durban Inland railways chmb the scarp to the Transvaal and

Orange Free State.

Outlook A handful of white people is faced with the racial problem of the numerous indigenous blacks and the many Astritic immigrants from India or their descendants Labour is needed for the mines and plantations and the future rests with the satisfactory solution of the problem



St. John's is approached by a narrow entrance called the "Narrows" in the rock-bound coast. Huge cliffs of dark red sandstone piled on a foundation of grey sate reck blot out the horizon. On the right towers an almost perpendicular precipiee 300 feet high, and on the left a rugged hill attains a height of 600 feet. The "Narrows" is half a mile long and at the narrowest point, between Paneake and Chair rocks—from which a chain was hung in the olden days to knep out hostile ships—it is only 400 feet wide. Vessels of the largest tonnage can enter at all periods of the tide WONDERFUL HARBOUR OF ST. JOHN'S, LYING IN PEACE BEYOND THE PASSAGE OF THE "NARROWS"

NEWFOUNDLAND Where the British Empire Began by Beckles Willson



NEWFOUNDLAND WITH ITS 6,000 MILES OF IRON-BOUND COAST

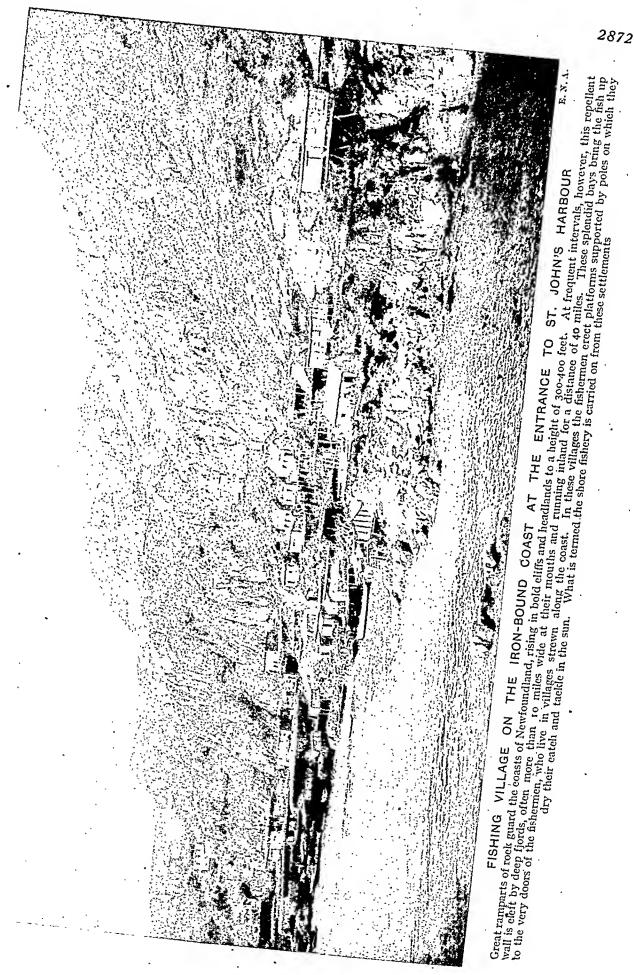
exploration. Much of it is barren, but in the valleys there is a considerable area of land favourable to grazing and agriculture.

Altogether there are some 10,000 square miles of forest growth, chiefly black spruce, balsam, fir, birch, white spruce, elm and hazel. Timber grows with remarkable rapidity, and reproduces itself, on an average, every thirty years; in some cases the average is fifteen years. In this way nature compensates for the comparatively short season and provides for reafforestation.

Besides that cut for pulp and paper-making, most of the timber is utilised in the island, principally for ship-building, cooperage purposes, and for pit props. An increasing trade in manufactured lumber is, however, developing. The Newfoundland hard woods, such as yellow birch, tamarack and ash are admirably suited for making tool handles, spools, bobbins and similar articles so important to the textile industry; while the local birch, juniper and tamarack are found useful in ship-building, spruce and fir are, to some



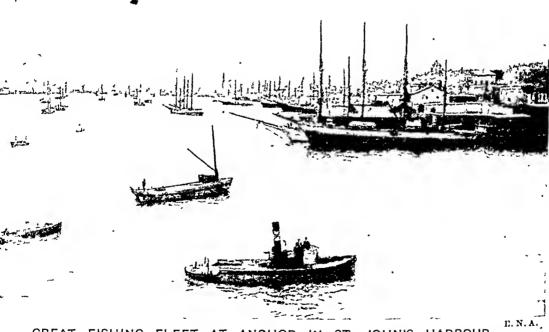
GREAT FORESTED HEIGHTS IMPRISONING ST PAULS INLET
ST Fauls Inlet is on the west copy of the Island and if egran lear of its scenery ranks it with the Islands of Nor. W. Some of the to vering ellis are ranged and savage v.l. le others are clothed v.l. trees
and on the flat margins are forests of black sprace breh. If and bals in The Inter or of New
Island is burren in certain regions and Locasideral be stretcher and almost v. explored.



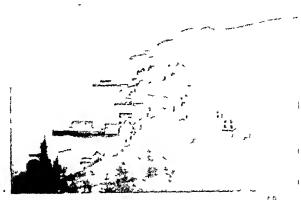




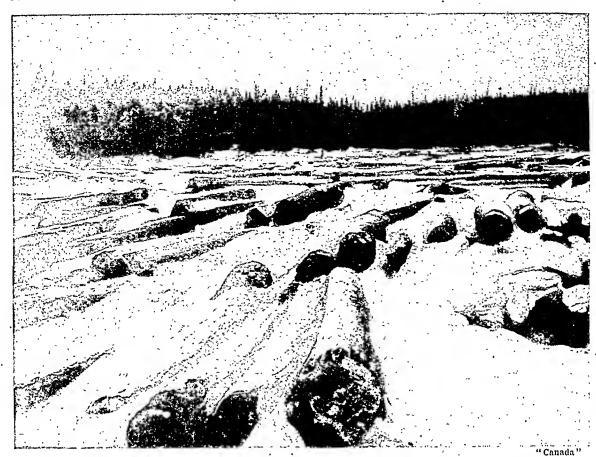
ST. JOHN'S RISING FROM THE HARBOUR IN A SERIES OF TIERS is the crest of the hill is the Roman Catholic cathedral of S. John the Baptist. It is in the form of a tun cross, and has two towers 138 feet high. The Anglican cathedral, about half-way up the slope, one of the finest ecclesiastical edifices in British America. It was designed by the elder Six Gilbert Scott in an Early English style and restored after the fire in 1892



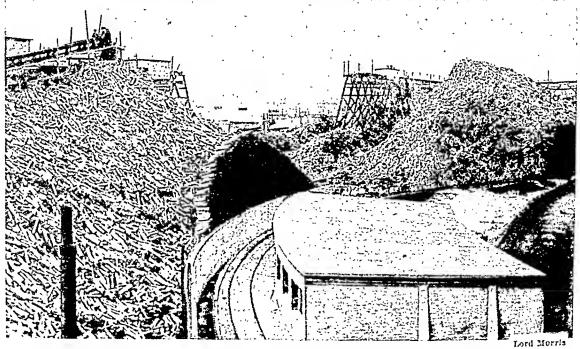
GREAT FISHING FLEET AT ANCHOR IN ST. JOHN'S HARBOUR eyond the "Narrows" the harbour trends suddenly to the west, so that it is completely landlocked. It is fully one mile in length and nearly half a mile wide. St. John's is the headquarters of the fisheries and the chief business centre of the island. To the right in the photograph can be seen the clock-flower of the Court House, opened in 1904, in Water Street



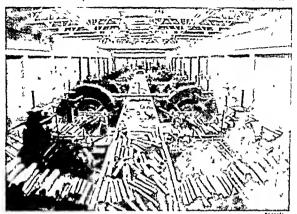




CUT OF LUMBER ON A FROZEN RIVER WAITING FOR THE THAW The rapid reproductivity of the forest growth in Newfoundland is a principal factor in the development of the lumber and paper industries. The extensive wooded areas represent a vast potential wealth, for the denuded forests grow so quickly as to yield wood suitable for pulp and paper-making within thirty years. Some 3,300 square miles belong to the Anglo-Newfoundland Development Company



DUMPING GROUND OF SPRUCE LOGS READY FOR THE PULP MILLS
Among the varied forest wealth of Newfoundland, the pine, spruce, fir, juniper, birch and maple have
pride of place. The white pine may be said to be the mainstay of the lumbering industry, while spruce
is used chiefly in making pulp and paper, and enormous areas exist on the island of what is known locally
as "pulp woods." This colossal dumping ground is at Grand Falls



WOOD PULP IN THE HAKING AT THE HILLS OF GRAND FALLS and the first primary per rillight the world and the first primary per rillight the world and the first conditions and per period to the unit occurred by the Andro Notindinal Dates of a Company 1111. In failure has a model of the life model in the continuous will in resent years and the large-related testing period within elements a little and related and certain the state.



NEWFOUNDLAND WOOD PULP DESTINED FOR ENGLISH PAPER MILLS
It is estimated that about a million tree trunks are consumed yearly in the mills at Grand Falls the
power being supplied by it of applieds there while the maximum daily output is 18 to nos of paper
300 tons of mechanical pulp and 65 tons of subplate pulp Whereas much pulp is shipped from
Newfamilin to the Imperial Paper Mills Gravesni Grand Falls manufactures paper on the spot

feature of the hook and line fishery is that bait is always required, such as herring, caplin and squid, and the clusive habits of these smaller bait fishes often delay the fisherman in the practice of his calling.

How they Fish the Banks

Next comes the bank fishery, on the great submarine islands or banks that lie off the coast of the island at a distance of from 200 to 600 miles. In the shallow waters that cover the banks are countless myriads of the largest species of Newfoundland cod. It is supposed that the meeting of the Gulf Stream and the northerly Arctic current hereabouts has a disturbing effect on the sea bed, releasing an edible sediment and so creating a luxurious feeding-ground.

The bank fishery is carried on in small vessels, containing crews of from twelve to twenty men. Each vessel having been anchored on the banks the men go out in flat-bottomed boats, or "dories," to set their lines, which often contain 3,000 hooks, each one separately baited. At the end of the day the catch is brought to the ship and there salted to await the return to land.

About 150 vessels each year are engaged in this branch of the industry. In this form of fishery there is a good deal of waste, the heads and entrails of the fish being thrown away, instead of being utilised as they should be as a fertiliser.

Failing Foreign Markets

The third branch of Newfoundland fishery is the Labrador fishery, engaged in each summer by the migratory Newfoundlanders, who go in sailing vessels from thirty to sixty tons to that coast and settle there from June to September, returning to Newfoundland with the proceeds of their voyage. A small proportion of permanent residents in Labrador who are called "Liviers" (live-heres) eke out an existence on that coast. Often as many as 800 vessels are engaged in this branch

of the fisheries, employing 10,000 to 15,000 men and women.

The greater part of the codfish caught in Newfoundland waters is marketed in Brazil, Italy, Spain, Portugal and the West Indies, about 200,000 quintals to each country. Newfoundland fish is a highly popular article of food in warm climates, where meat is perishable.

Unhappily, owing to the Great War, the foreign purchasers of Newfoundland codfish in Portugal, Spain, Italy, Greece and in Brazil, owing to the depreciation in their currencies, are now unable to pay for the fish they buy at a rate that will yield the Newfoundland shippers a fair margin of profit. This is proving a serious matter for the islanders, and illustrates the great danger which attends the production of a single staple and the too exclusive devotion to special markets.

Possibilities in the Herring

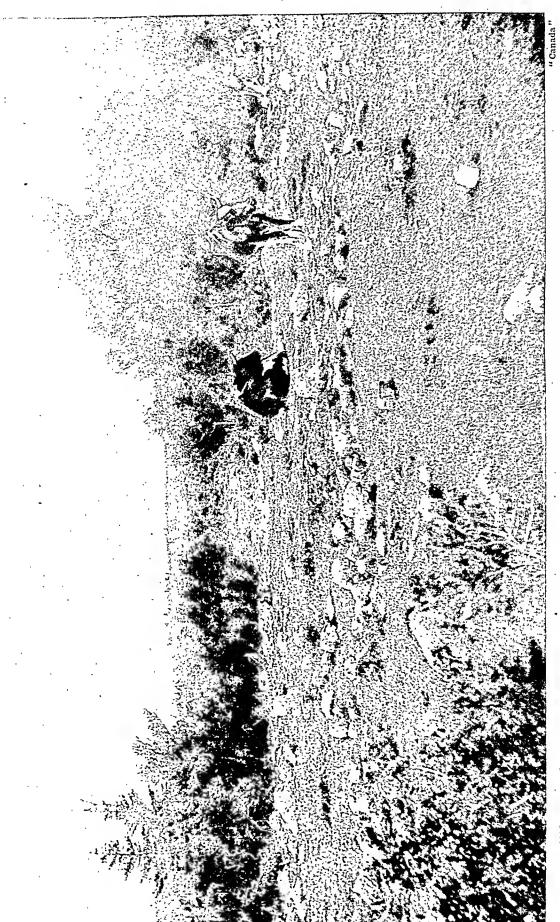
The trade with the United Kingdom in codfish has diminished. This is ascribed to cheaper freight rates for similar fish from Norway, facilities between Norway and England being better than those between Newfoundland and England. The new era of Imperial development may be effectual in promoting improved commerce in this direction.

The herring fishery, too, is one that offers great possibilities in Newfound-The gathering ground of the herrings is the Bay of Islands and the Bonne Bay on the west coast, but the herring, like all other fish in Newfoundland, has been traditionally sacrificed to the cod. But demand is growing, and a certain trade is done with. Canada and the United States in herrings, either pickled in barrels, or, as is more often the case, sent in bulk in the ship's hold. With improved methods in curing and packing, the herring fishery should be as successful and as profitable in Newfoundland as it is in Scotland.

A new development of the fish industry—the preservation of fresh fish in cold storage—promises to secure a



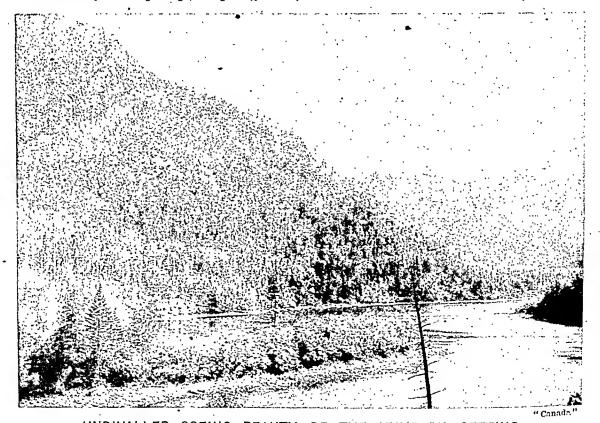
DIFFICULT PASSAGE ALONG A TRIBUTARY OF THE UPPER GANDER on its way to Hamilton Sound. Before draining Lake Gander, its upper reaches are fed by several small inbutanes; here one of them, known as the Lesser Gull, as seen carving its path with many sharp twists and bends across the face of a water-scored wall of rock.



Conception Bay is in the Avalon Peninsula west of St. John's and on its shores 'lie many pretty villages which are favourite summer resorts. Bell island, about six miles long, is situated in the bay and on it is a deposit of brown hematite iron ore. The mines extend under the sea for over a mile and produce about one million tons of ore annually. At the head of the bay are large tracts of good land, covered with fine timber and fit for agricultural and grazing purposes, though agriculture is carried on upon a small scale as compared with the vast fisheries ISLAND IN THE DISTANCE OF BELL BAY AND THE OUTLINE WOODED SHORES OF CONCEPTION



STILL WATERS IN A LOVELY SETTING ON THE LITTLE CODROY RIVER From Cape Ray to Cape Anguille the coast is singularly rugged and inhospitable in appearance. The Great and Little Codroy rivers enter the sea between these two points after flowing through a beautiful valley nearly 40 miles in length. There is excellent salmon and trout fishing on the Little Codroy, while the Long Range, rising to 2,500 feet, is celebrated for its fine mountain scenery



UNRIVALLED SCENIC BEAUTY OF THE HUMBER'S SETTING

The Humber, the third largest river in Newfoundland; is 70 miles long and navigable for small craft for about 30 miles up-stream. It flows through Deer Lake into the most southerly of the three arms of the Bay of Islands, where some of the island's grandest scenery is located, the magnificent mountains, forest-clad to the summits, resembling in parts the Highlands of Scotland

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HUNTER AND HAIR SEAL ON THE ICE FLOES OF NEWFOUN

The end of the state of the sta

HEAP OF SEAL PELTS ON THE WHARF AT ST JOHN'S HARBOUR TIE Attentie was under the lardic was which he need to the first for a start for the think hair and prized untially let its skir and fast the larmer being consected into beather, the latter late oil. The Newtonia Band scalers I mag their carges to St. Jella's bandour, where experts in the intustry are employed in large marie owns to refine the List and clean the bill expreparation to expert

wait for the thaw which sets them affoat down stream to the pulp mill. About 120,000 cords of pulp wood are cut each Several prominent London newspapers are supplied with paper from the Harmsworth mill. In 1898 the narrow gauge railway which traverses the island was completed and opened for traffic, and thus was formed the final link in the main travel-route between St. John's on the far east and Vancouver island at the Pacific extremity of British North America. opens up the chief farming, lumbering, mining and sporting regions of the island and also has a steamer service to the Canadian port of Sydney, Nova

The capital of the dominion is St. John's, and the visitor voyaging thither will find the entrance by sea very striking and picturesque. A narrow opening suddenly appears in the rocky wall, as if some convulsion of nature had rent the rampart asunder and the Atlantic Ocean had rushed in. from 500 to 600 feet high stand guarding it on either side, the incoming vessel gliding between them.

These "Narrows," as they are called, are nearly half a mile long. minutes after leaving the heaving breakers of the Atlantic, the steamer is moored placidly at its wharf.

St. John's has a population of about 36,000. In some respects it resembles the coast towns of Devonshire, being built on the sloping water front. The harbour is surrounded by busy warehouses and wharves, at which vessels are loading or unloading. The dry dock at the head of the harbour is able to accommodate all but the very largest ocean steamers.

The most conspicuous building of the town is the Roman Catholic cathedral, although a Church of England cathedral, designed by Sir Gilbert Scott (senior), is also a notable structure.

In St. John's there are three attractive new open spaces. Bannerman Park and Victoria Park are both in the centre of the town, and are carefully tended and kept. They are, however, eclipsed by Bowring Park, a beautiful natural estate. three miles out.

The situation of Placentia, which was the ancient French capital until the Treaty of Utrecht in 1713, is extremely beautiful and picturesque. It is connected by rail with St. John's.

Heart's Content is the western terminus of the Anglo-American Telegraph Company's Atlantic cable. It is a very old settlement and was taken by the French in 1696, when its population amounted to seventy inhabitants. The town now numbers about 1,500 people and has two fine churches and a number of good private residences.

The other chief towns are Harbour Grace, Carbonear, Twillingate, Burin, Grand Bank, Burgeo, Channel, Grand Falls and Corner Brook.

NEWFOUNDLAND: GEOGRAPHICAL SUMMARY

Natural Division. Island fragment of the old continent of Arctis, with embayed shores and drowned harbours. (Cf. Ice-land, Greenland.) The Strait of Belle Isle is a complete trench parallel to others partly obstructed by the island mass between northern and southern bays; the valleys follow the same trend.

Climate. East coast marginal temperate. (Cf. Sakhalien and Hokkaido.) Rainfall and temperature are controlled by ocean currents; the warm Gulf Stream to the south-east, the cold Labrador current to the north-east.

Vegetation. Mainly coniferous forest. (Cf. the maritime states of Canada.)

Potatoes and hardier cereals will grow,

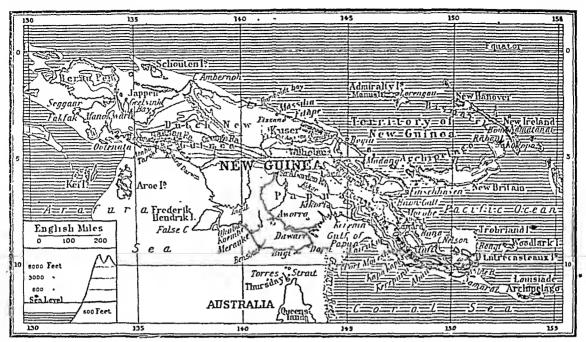
Occupations. Cod-fishing (i) shore, (ii) bank, and (iii) Labrador with definite seasons and limitations. The food for the cod is controlled by the ocean currents over the shallow submerged platform of the Grand Banks. (Cf. Lofoden Is., Norway.) Herring-fishing, hair-sealing, trapping: Lumbering mainly for wood-pulp for the paper trade. (Cf. Quebec

and Norway.)

Outlook. The fishery was long the staple and depends on the requirements of fish in Catholic countries. The paper pulp trade and a possible mineral development should bring steady prosperity by reducing dependence upon fluctuations in the market for stock and salted fish.

NEW GUINEA The Island of Mysterious Forest by C. A. W. Monckton

NEW GUINEA 2886



RIVERS, REEFS AND LAGOONS OF THE WORLD'S LEAST KNOWN ISLAND

and it includes a large number of small islands which lie mainly off the south-eastern extremity and are comprised in various groups, of which the chief are the D'Entrecasteaux islands, the Trobriands, and the Louisiade Archipelago.

The third part of New Guinea is the mainland portion of what is now known as the Mandated Territory of New Guinea, formerly German New Guinea. The German Protectorate was set up in 1885, only a few weeks after proclamation of British New Guinea. The mainland part of this German territory forms the north-western section of eastern New Guinea, and is known as Kaiser Wilhelms Land. The German possession included also the Bismarck Archipelago, which contains the important islands of New Britain (or Neu Pommern) and New Ireland (or Neu Mecklenburg); in fact, the seat of government was in New Britain, first at Kokopo and afterwards at Rabaul.

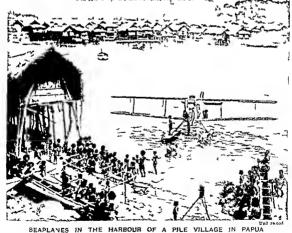
Kaiser Wilhelms Land is the smallest of the three divisions of New Guinea, having a total area of about 70,000 square miles. Soon after the outbreak of war in 1914 it was occupied by an Australian force, and after the conclusion of peace it was assigned to Australia as mandatory. In 1921 the

new civil administration was set up by the Australian government.

It may be said roughly that the island of New Guinea consists of a large compact central mass which is extended by long promontories towards the north-west and the south-east. Right across this central mass there runs a main chain of mountains, which is continued on the south-eastern side to the extremity of the peninsula, where it ends in the sombre cliffs which rise above Milne Bay some 2,000 feet in height.

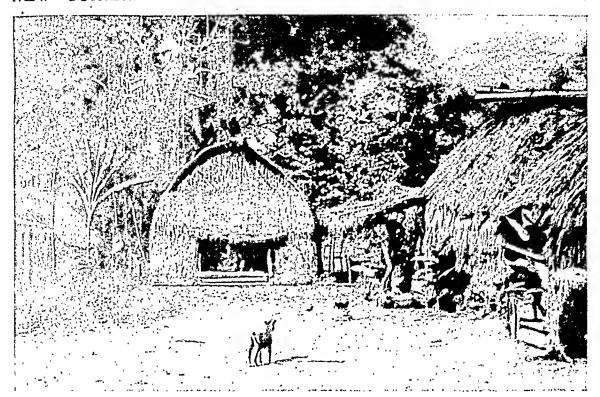
Between this main chain and the sea there are various lesser ranges both to the north and south, while in the narrow eastern extremity of Papua, spurs from the central range run out northwards to the coast, where they form headlands such as those at Cape Vogel and Cape Nelson. More often there is a belt of low-lying land between the mountains and the sea, and in some parts the flat country stretches inland for 100 miles or more, consisting of vast swampy plains with a network of creeks.

The mountain ranges are difficult of access and only partly explored and surveyed, so that our knowledge of them is still very imperfect. Many peaks in the higher ranges reach a height of ro,000 feet, the highest in Papua being Mount Albert Edward, at the northern



SEAPLAYES IN THE HARBOUR OF A PILE VILLAGE IN PAPUA Nearly all the Papuan villages are but no ples not only on the coast but on the high de In a few districts the houses have been but at some distance from the shore as a protect on against raids. These seaplanes in v ich a party of ex lovers reached Papua we o regarded as gods and R was some time before the natives could be midword to sast it in moor in them.

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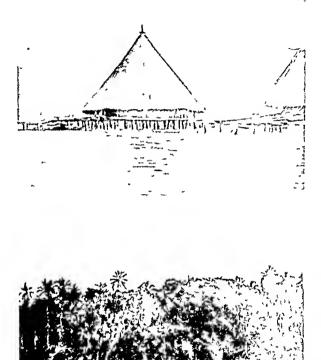
VILLAGE ON RAMBUZO, A SMALL ISLAND OF THE ADMIRALTY GROUP
The Admiralty islands form part of the scattered Bismarck Archipelago to the north of New Guinea.
Manus is the largest island, being about 55 miles in length, and Lorengau, the chief town, stands
on the north-east coast. Coconuts are the main article of cultivation and there are valuable pearl and
other shell fisheries. The villages are composed of the usual leaf huts with projecting caves



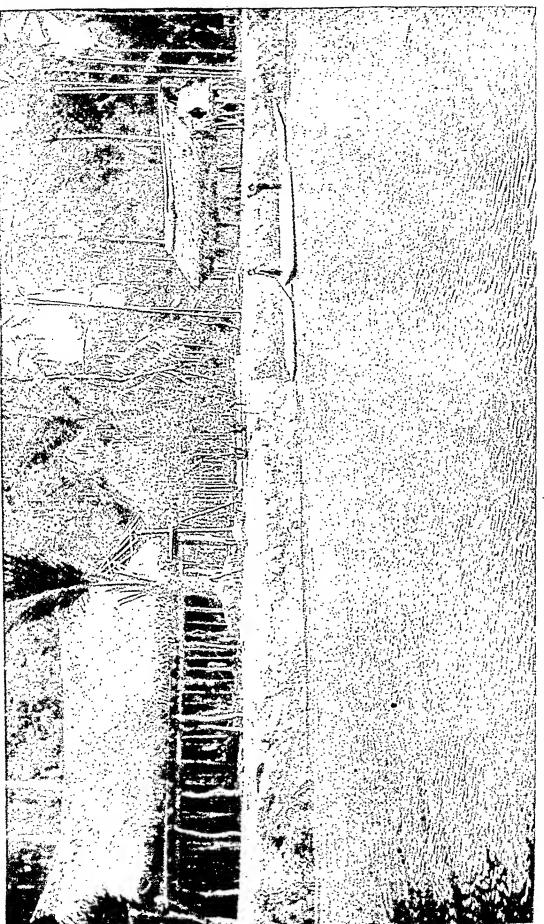
Captain O. G. Rawling

WAMBIRIMI, A PYGMY VILLAGE IN THE NASSAU MOUNTAINS
Wambirimi is a little village inhabited by the Tapiro pygmies, high up on the forested slopes of the Nassau mountains and about four miles from Mount Tapiro, 7,660 feet high. The houses are scattered about the clearing and are entered by means of a rough ladder. To get into the one room the inhabitants climb over the sill of a window. The walls are constructed of strips of flattened bark

2589 NEW GUINEA

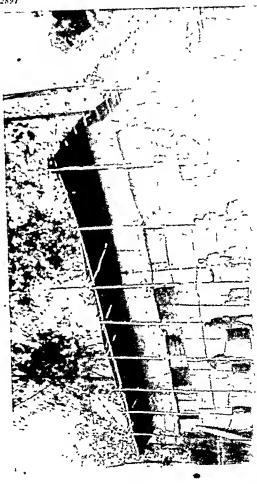


CORAL CLIFFS OF AN ISLAND NEAR CAPE MERKUS NEW BRITAIN the reparated from the east coast of New Guinea by Dampler Strait, in which there are rain, before for early formation which are exverted with trees chiefly pains. New Bitton is a well would shall also it 500 miles in length. The coasts are, low and fertile 1 in the later it is no untain on a sail contains exercial victances. There are fundation was not required to the coast and contains a sail contains exercial victances.



the Victor Emmanuel mountains and its mouth is at the eastern extremity of the Hansemann coast. It is navigable for about 125 miles by large vessels, and for hundreds of miles by boats of small draught. New Guinea is rich in rivers, but there are many drawbacks to navigation. Nearly all have bars at their mouths, with little water over them at high tide, while many have strong currents and are subject to sudden rises and falls 13. Kaiserin-Augusta river is the most important fiver in that part of the island which was formerly known as German New Guinea. The river has its source in

NEW GUINEA



NEW GUINEA 2892

being on the whole hot, moist and unhealthy. The south-eastern part of Papua is the most favoured region, though even there the humidity of the atmosphere is trying to the white man, and the climate can hardly be called healthy; but in some of the higher parts of the south-east it is at any rate comparatively cool and bracing.

On the other hand, in certain districts of Dutch New Guinea, the climate is considered one of the most unhealthy in the world, and it has been found almost impossible for Europeans to settle there for any length of time. In the northern parts of New Guinea the rainfall is very heavy, and continues all through the year, so that there is no dry season. In the south there are two well-marked seasons: the period of the south-east trade winds, from about May to November; and of the north-west monsoon, from December to April.

Not a White Man's Country

The wettest months as a rule are February and March, the driest September and October. In the north the rainfall ranges from about 100 to 150 inches, in the south from 30 to 80. High winds are frequent, though they usually drop at nightfall; most of the rain occurs at night. During the monsoon period sudden squalls are common, and thunderstorms of great violence occur, but typhoons are unknown.

The temperature varies from about 95° to 70° F., but these outside extremes are not often reached, the average in most districts ranging from about 85° to 75°. Even under the most favourable circumstances the climate is not a suitable one for white men to work in any manual capacity, though they are in some cases able to live there for many years, at any rate in Papua, without apparent injury to their health. Malaria is not perhaps as prevalent as might be expected, but there is much dysentery, also blackwater fever, and leprosy occurs occasionally. In the Dutch and mandated territories there are sometimes outbreaks of small-pox.

The soil of New Guinea is, in some regions, of remarkable fertility, in spite of the fact that so much of the surface of the island is either mountainous or The vegetation is in conswampy. sequence notable for its richness, variety and interest. The flora is largely Malayan in character, this affinity being most closely shown in the case of the There is still much need for ferns. classification, as many forms are at present imperfectly understood, and it is probable that many fresh discoveries await the botanist. The great wealth of timber is a noticeable feature of the vegetation; some 120 species having already been noted in Papua alone.

Alpine and Tropical Flora

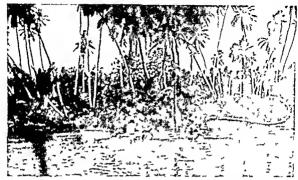
The variety of the New Guinean flora may be judged from the fact that it ranges in character from tropical to Alpine, including not only the banana and the mango but also plants characteristic of the Himalayan region. scenery that opens out before the traveller in ascending a New Guinea river gives some idea both of the great fertility of the soil and of the amazing variety of the vegetation and of animal life as well. In some cases thick jungle will come right to the water's edge, an almost impenetrable mass of vegetation, in which an endless variety of trees and plants are struggling together in bewildering confusion. The prevailing colour will be dark green, relieved perhaps, if the traveller is lucky, by the blazing scarlet of the wonderful d'Albertia creeper, and by the gleaming wings of the white cockatoo.

Mammals that Lay Eggs

It is interesting to notice that whereas the flora is chiefly Malayan in character, the forms of animal life are more akin to those of Australia. Mammals are comparatively few in number, but they include the egg-laying varieties. Among the indigenous animals are the tree-kangaroo, wallaby, cuscus, flying fox and wild dog. Rats, mice and squirrels.

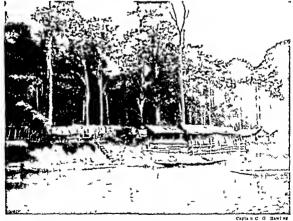
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VILLAGE OF PARIMAU ON THE BANK OF THE MIMIKA RIVER Is also it you stank on a hear of the fruit is. Until a hear to the front is would into the best as a Cowing it the fruit is to the fruit is subjected the lank is a been seen end out and has to be reinforce furth a rest sing wall. The forcests of New Comient is the given the stank about with creeks and parasities are entailed make travelling, almost impossing a more travelling, almost impossing a more travelling, almost impossing a more travelling.

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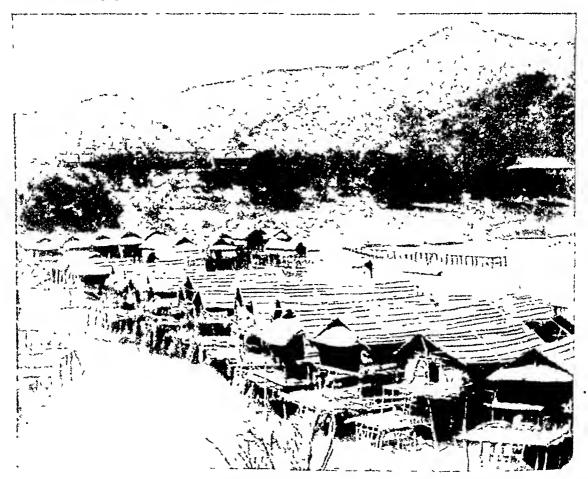
ecomplon, but there are no monkeys, are the wild animals of Asia to be the in New Guinea. One of the animals of New and is the wild pig.

Gew Guinea is rich in reptiles, and a-several species not known elsewhere; ocodiles are common, and so are riles and tortoises. The python is more puently seen, and there are many other snakes, both poisonous and non-poisonous. Insects are very abundant, is the traveller in New Guinea finds to his cost; mosquitoes and huge blue-bottles are among the more unpleasant varieties. Butterflies are numerous, and include some very large and strikingly beautiful species.

It is, however, for its birds that New Guinea is most famous with naturalists. Over 500 species are known, many of them being peculiar to New Guinea,

and others may well be discovered in the more remote regions of the interior. The dense forests are naturally favourable to bird life, and offer great opportunities to the ornithologist. The number and variety of the birds-ofparadise are very striking, and New Guinea is also specially rich in pigeons, parrots, honey-eaters and fly-catchers. Hornbills are common, and attract attention by the loud, whirring noise they make when flying. The largest bird is the cassowary, and there is the large goura-pigeon, with its grey-blue crest and orange-red eyes.

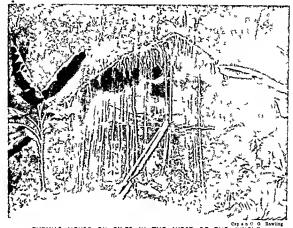
Agriculture is the most important industry of the country, and holds the greatest promise for the future. The system of native plantations is bringing a large area of land under cultivation in certain parts of Papua. The fertility of the soil and the abundance of fresh



NATIVE PILE VILLAGE OF ELAVORA NEAR PORT MORESBY

Port Mortsby, the capital and chief port of Papua, is situated on Fairfax harbour. Tafiubada, on the coast, and Llavora, on an island, are two large native villages adjacent to the port. A large area with time copper deposits is being actively developed near Port Moresby which also exports copra, gold, hemp and pearls. There is a wireless station and a regular steamer service with Sydney

2895 NEW GUINEA



PYCMY 8 HOUSE ON PILES IN THE MIDST OF THE JUNGLE
Among the pigules of the \(\) a u mounts s in Dutch \(\) we can ach houses are justed firent from
the pin line and lemperary leaf it is found in the plains. The strict ress are shound alwoodbuilt in recreded in piles the fore it is not always to the test from the ground. The is a coron with
a seran in in front wild it is shell red by the properting eases. The good is of fain pain locales.

water are favourable features but on the other hand the difficulties of trans port are great. The cluef objects of cultivation are coconuts rubber and hemp. Coconuts are easy to cultivate and very profitable as copra finds a ready market in Austraha.

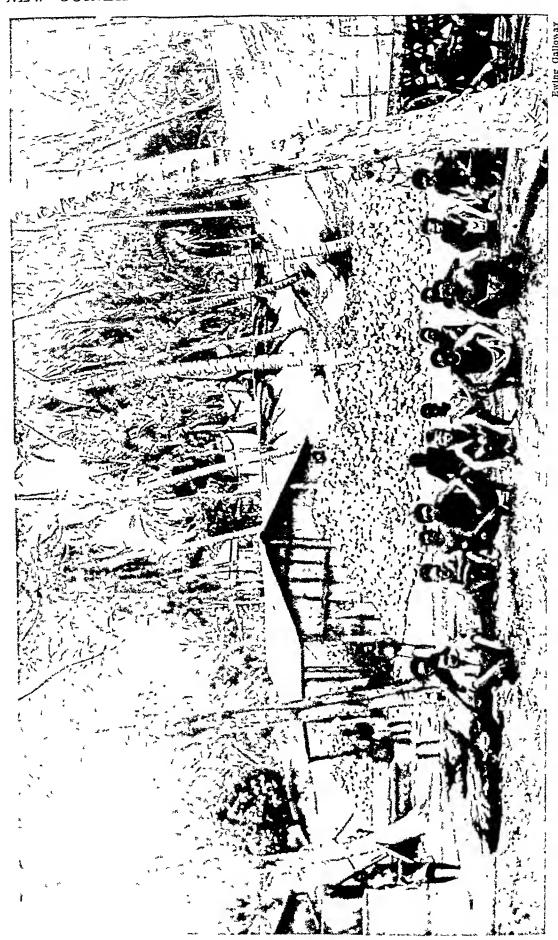
Rubber presents more difficulties as it is more dependent on climite and will only flourish in certain districts. Hemp like copra is casy both to produce and to sell. Tobacco and cotton are also grown though on a much smaller scale and tea coffee and rice are produced in small quantities. Tishing as an indigity is concerned chiefly with pearls and with beche demer a sort of large sea slug prized by the Chinese as an article of thet.

The mineral resources of New Guinea are at present only very imperfectly known. It is quite probable that with the further exploration of the almost

unknown interior of the island new gold fields may be discovered of greater value than any of those now known Of these the Woodlark Island field is the most important

Copper mines have been worked in the Astrolybe field not far from Port Moresby and should prove profitable when the railway now in course of construction is completed. Coal has been found in several districts of Dutch New Guinea and to a lesser extent in Papua. Petroleum springs exist in various parts of the Dutch territory and an important field has been discovered on the Vallala river in Papua.

It must be remembered however that neither the agricultural nor the mineral resources of New Guinea can be at all fully developed until great im provement has been made in the means of communication. The difficulties of inland travel are very great owing to the



rest parts of New Gunea, but they three best on the rivers and coasts, and the eastern and western portions of the southern coast-line of the country of the cultivation of coconuts for the manufacture of copra than to any other article and the value of the control of sold. Notice palms are numerous and from this tree the Papuan gets food and drink, wood for his house, and canoe, leaves for a feet the roof of his hut, clothes from the bark and a kind of sieve from the leaf-fibres COCONUT

nature of the country Roads at present are few in number and road making in New Guiner is both expensive and laborous. In the Dutch territory the nnly real roads at present are those which extend for a few index inland from the principal settlements.

In Paper the most important road is that which connects Port Moreshy with the Sogen district and the Astrolabe copper fields. Apart from this and a few short roads which serve plantations or mines refunce his to be placed on government tracks which are main rained by the natives each village being responsible, for its own metabloothood

In the mandated territor, there are roads in connexion with the chief ports but they do not go very far miland. A railway, as mentinned is being constructed in Fapua in connexion with the Astrolabe copper fields.

The only other means of inland travel is by river and this too is aften difficult owing to strong currents rapids but at the mouths and other obstacles. I atternal communication is on the whole caser than internal as insignation is fairly good especially inside the Barrier Reef and there are regular steamship services from Australian ports and from Java and Hong Kong. There is a wireless station at Port Moresby in communication with Thursday island and with Cookhown.

New Gimea can hardly be said to possess any real towns in the Furopean sense of the word. The most important place is Port Moresby the capital of Papua with a non native population of about 700. It is the seat of govern ment and the principal port of Papua

with a long wharf and a jetty for smiller vessels. Next in importance comes Samarai island which lies just off the south eastern extremity of Papua

The chief towns of Dutch New Guines are even smaller than those of Papua They include Fakfak a port which has trade relations with the Moluccas and is the seat of an assistant Manokwari in Geelvink Bay and Meranke both of which have a few Luropean inhabitants and carry on an export trade in copra and bird of part dise skins. In the mandated territors for Kruser Wilhelms Land) the principal port is Friedrich Wilhelmshafen now called Madang with a non native popu lation of about 300. It has good ac commodation for vessels with a coaling station and wharf

It is not possible to give any accurate figures for the total population of New Guiner. It is thought that in Papua the numbers are approximately 275 000 natives and 1 100 whites. The estimate for Dutch New Guiner is about 200 000 while for the mandated territory estimates vary enormously ranging from 110 000 to as high as 350 000. These estimates are however all purely gives work no one knows what is the population of the interior while every year freely tribes are discovered.

Now that both the Poles have been reached by explorers and the Sahara crossed in motor cars it would perhaps liardly be an exaggeration to describe the interior of New Guinea as one of the least known and most inaccessible places in the world. There are cer tamly few countries if any that offer so nich a field to the evolorer.

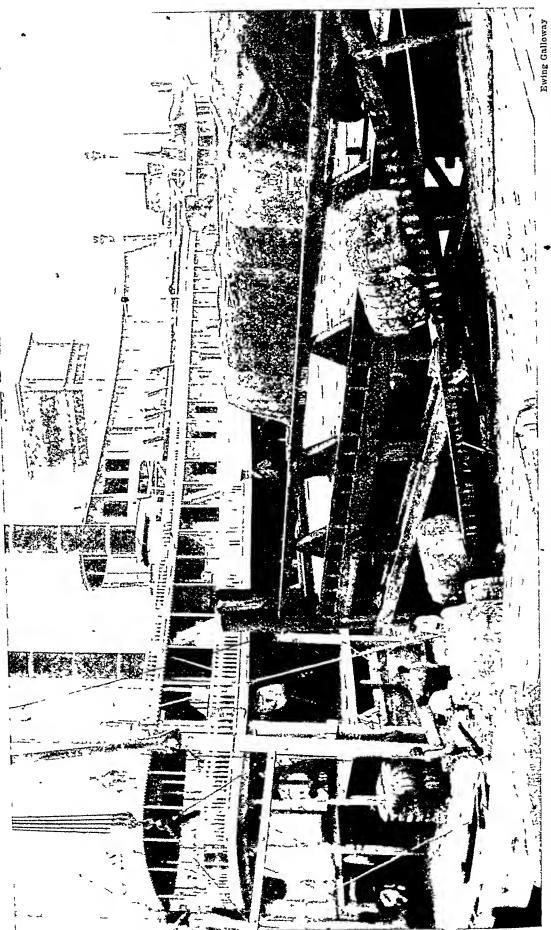
NEW GUINEA GEOGRAPHICAL SUMMARY

Natural Division Large island with a mountainous backbone and on the south an extensive lowland. The least explored of all inhabited areas (Cf. the trend of Sumatra and Java)

Climate and Vegetation Tropical climate with tropical constant rains in the north but with monsoon rains in the summer season (cf. Northern Australia) in the south Tropical mountain flow (cf. the Himalayas) with jungle vegetation on the lowlands (cf the Terai swamps of N India)

Products A slight beginning of plan tation cultivation of coconit palms for copra rubber and tobacco Possible mine fields for gold copper and coal

Outlook In relation to the exploitation of tropical jungle lands New Guinea has but begun to tread the path followed by Sumatra with Java as a lode star It lacks both capital and labour



There is no more productive region in the world than that drained by the Mississippi, the river that intersects the United States from north to south. This region is rich in forest and mineral wealth, and grain, livestock, cotton, nee, sugar, tobacco and fruits are produced abundantly. About roy miles from the Mississippi's mouth in the Gulf of Mexico hes New Orleans, the flourishing port of Louisiana state, which next to Liverpool is the world's largest and most important cotton Fort. In the year 1922 the cotton area of Louisiana state alone was estimated at 1,185,000 acres, which yielded 357,000 bales valued at £8,565,000 OF NEW A WHARF BELT CONVEYER ON ELECTRIC UNLOADING COTTON WITH AN

The Splendid City on the Mississippi

by J. A. Hammerton

I diter Countries or the World



THE "CRESCENT CITY" ON A BEND OF THE MIGHTY MISSISSIPPI

in moulding the character of the city. To-day it is evidently an important centre of American propaganda in the Spanish-speaking countries of the western hemisphere, and many notices in Spanish in the business quarter bear witness to the activities of Americans in their effort to permeate the great southern continent with their influence.

One had come from Spanish lands in sailing up the Mississippi, and it was a little shock, after the courtesies of the farther south, to find such notices as "Keep off this platform" or "Keep off" in the busy stations and on the thronging quays of New Orleans; though one was later to discover that this was a high measure of courtesy compared with "Off this" or "Off," to which the brisker New Yorker had condensed these warnings. But the strain of them was reproduced in the character of the inhabitants, and it was a continual delight to saunter along the sidewalks of the famous Canal Street, surely one of the widest thoroughfares in any city and one of the most animated.

The English one heard was mostly spoken with that soft southern accent which is as different from the New York intonation as that is different from the English of the educated Londoner. And everywhere the liquid charm of the French tongue, so that at times and but for the English shop signs it was difficult to suppose that they who spoke the English were other than visitors. It is interesting, too, in wandering the streets of New Orleans to notice when one overhears the French language that despite the intermarriage of the two races the appearance of those who use the language of the old Creole days is still curiously French.

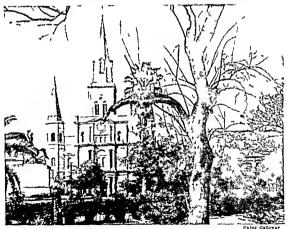
The negro element is, of course, very considerable in this old centre of the cotton and sugar-cane industry, and though the numerous coloured persons of both sexes, whose cheery faces and

love for bright colours add so much to the numerition of the street througs have lost much of the picture-sque qualities which they had in the days that George Washington Cabl loved to numerate they are still in element not to be dapit of from that point of view, nor from the point of view of industrial resolutes.

I was reminded that here the negro is still 'Tept in his place. In my undertenth sitting in the part of a truncar reserved for coloured folk the conductor being most solicitious that I should not so far for; it is dignity of the white rice. Perhaps it is not entirely a fortunate, thing for the United States that some where about Washington the Jim Grow care cases to be recognized and I lack and white sit check by jowl in trun or trun.

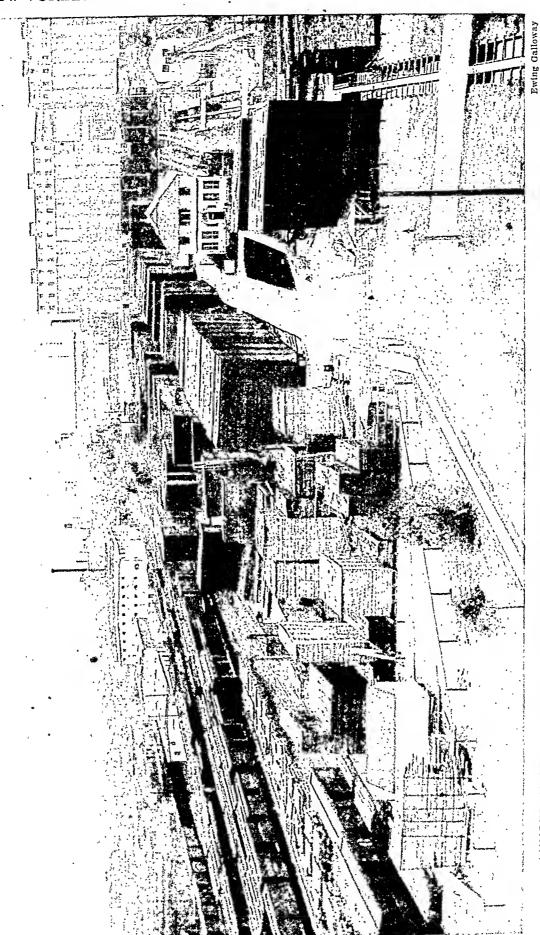
Somewhere I have som it stated that New Orleans is not a city noteworthy for its architecture. Certainly it would make a very bad compart on if it were to be contrasted with the splendours of Washington but even architecturally it contains much that is plassing. In the old I rench quarter particularly, where the streets are narrow and full of quaint and unexpected corners a lover of the natural can find much to enjage his interest some of the Trench courty and with their fount into and flower having that clusive touch of old world charm more precous than fine architecture.

The old Absinthe House which date from 1798 and the Cabible where it municipal authority during at the 18 feb. Spanish regume which last defrom 1763 until 1800 have an historial interest which many American cities would ency. The cathedral of 5 1 utility is made son square has also a 1 culturation and being from the late day of the Spanish occupation and being of the Spanish occupation and being



The are few huld me of great architectural interest in New Orleans.

The care few huld me of great architectural interest in New Orleans the Cull order of S I outs erected in 1292; in life Croft Symans byte and reprired in 1851; is one of the most noteworthy It stan is in 1 i 1 a 18 uare which is a formed with an equestion statue of General Andrew Jackson who globel a victory over the Belt is troops at New Orleans in January 1875.



it is said that the United States government disposes of more lumber than any other forest owner, and the timber sales bring in a large revenue. The state of Wealth conversed into planks, boards and other structural timber by the saw-mill. Timber is extensively exported from New Orleans, a river port of Louisiana, where carries on an informational trade and possesses a grand natural harbour with splendidly equipped wharves, where vessels of all nations load and unload ; many of them have been laid low by great lumber companies and LOUISIANA OF TIMBER DRAWN FROM THE FORESTS Louisiana contains vast woodlands with remarkably fine forests of pine, cypress and oak LUMBER YARD AT NEW ORLEANS STACKED WITH

an authentic (Nample of Creole architecture, though the architecture, though the architecture, dates back to 1737—a venerable structure for an American city.

There are many fine modern buildings but very few of the skyser iper variety, due perhaps to the difficulties presented by the soil which, lying between Lake Pontchartrain on the north and the Mississippi on the south, is noturiously Charles Avenue, a noble thoroughfare running nult upon nule between spl fidde residences standing in their greet grounds with wide sweeping fawns speak of the opiciarce of the citizen and place the observer with the serior of well being and entitured test. The city abounds in spleaded parks of what Andulon Park and City Parks are the finest. If was in the latter that the ducks of the Creol. Fay war fought.



NEGRO LABOURERS FEEDING A GRAIN SUGTION APPARATUS
Agreniture is the leading industry of Louisum: the chief crops bung corn more cotton and cane
sugar. These are fruin, in large quantities down the Mussesuppl by government barges to New
Orleans, whence these are shapped to miny forcing countries. Above is seen the lower end of a
grain suction apparatus, which is drawing when from the hold of a barge into the grain elevator.

waterlogged, so that when a citizen of New Orleans dies, unless he chooses to be cremated, his body cannot be committed to the earth. Hence the very remarkable series of cemeteries, full of magnificent tombs and great grassy avenies, which are so curious a feature of the ety. Here vaults are erected and cavities built for the coffins to be liud away one above the other in a modification of the Roman columbria system.

In writing at any length about New Orleans the temptation is always to dwell upon the picturesqueness of the old French quarters, but the great modern residential parts, such as St

Another splendid residential thoroughfare is Prytmia Avenue, and a visitor inglit be evensed for deeming the inhabitants of all this spacious quarter the most fortunate on earth. The park commissioners have, planted shade-trees along many of the thoroughfares as if the private gardens had overflowed into the streets, while in these a weith of tropical plants such as orange and magnolia, flourish and east abroad a thousand mingled scents

Even in winter there are flowers abloom, for though snow falls occasionally the season is short, and on the whole the climate is extraordinarily equable

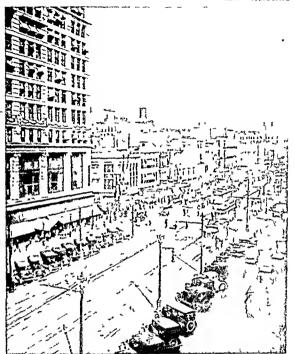


Ewing Gallows;

HOUSES AROUND A COURTYARD IN THE OLD FRENCH QUARTER
That quarter of New Orleans bounded by the Mississippi river, Canal Street, Rampart Street and
Esplanade Avenue is the French quarter and largely inhabited by Creoles. Most of the streets
bear French or Spanish names, and the houses with lime-washed stucco façades, jalousies, smallpaned windows and balconies looking on to inner courts give the place quite a foreign aspect

The mean temperature is 69° F., while in the height of summer a heat of 100° is the rarest occurrence; and that although the city is approximately in the same latitude as Cairo. One reason for this, no doubt, is the fact that large water areas surround the city, which also accounts for an average rainfall of nearly 60 inches a year.

Nor does the American quarter alone benefit from nature's kindness, for the "Vieux Carré," or French quarter, has its pleasant courtyards where the creeper riots, while Esplanade Avenue is lined with the gardens of dignified old homes where dwelt the Creole families, those native descendants of the French and Spanish colonists. On the 2905



CANAL STREET, DELIMITING THE FRENCH AND AMERICAN QUARTERS Cruel Street is the line of der receition between the Trench and American sections of the city and becefs the town in a north weeterly direction from it? Wisd spap to the New Dissu Canal Acre like foot of the street which is 200 feet wile is the neer steunboat lanking and at the corner of Decature Street is the grante building of the custom house occupying a viole block.

whole however, it must be owned that even with all its picturesqueness on one side of the balance there is a certain jurof squalor about the narrow streets in the Carré which makes one grateful for St Charles Avenue

This name Vienx Carré, is derived from the shape of the original palisaded settlement. It was in 1722 that the

Secur de Bienville transferred the head quarters of the Trench Comprany of the West in Louisiana to a spot 107 miles by water from the mouth of the Mississippi 1714.17, where a few years before he had laid out a settlement This place was named New Orleans after the Duke of Orleans then regent of Trance, but in after years, when the

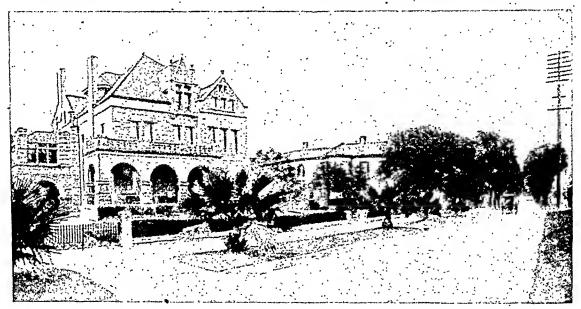
Ewing Callows;

town grew, it was often called the Crescent City from the bend of the river on which it stood. Tree-planted "levees" protected the site from inundation, for it lay many feet below the high-water level of the Gulf of Mexico, but even then it was surrounded by floods for three months in the year.

In 1762 Louisiana was ceded by the French to Spain and a Spanish governor arrived to take over the town, only to be met by, the active resistance of the inhabitants. Their resistance was short-lived, for O'Reilly, the new governor of Louisiana, dealt mercilessly with the ringleaders.

and progress, but when these were repealed a period of prosperity set in, and under his regime the Vieux Carré was reconstructed, and the canal that bears his name dug between the Mississippi and Lake Pontchartrain to the north.

But the old order was almost at an end. In 1800 Louisiana passed back to the French and was sold by them in 1803 to the United States. The citizens were granted a charter and for the first time a city council was elected; capital flowed in and the population rose; the first steamers arrived from Pittsburg and the Mississippi came into its own as a

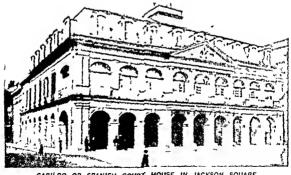


SPLENDID PRIVATE RESIDENCES LINING ST. CHARLES AVENUE
St. Charles Avenue, extending in a crescent from Lee Circle to Audubon Park, is lined with trees and lawns and contains many of the best houses in New Orleans. Among the public buildings in the avenue are the City Library and the Harmony Club, a white marble structure, and at the corner of Sixth Street is Christ Church Cathedral. This church was made the pro-cathedral in 1891

That was in 1769, and by this time the town was a place of some 3,200 inhabitants with a character entirely French. During the 31 years of the Spanish domination a distinct Spanish imprint was imposed not only on the buildings, for the Spaniards built well, but on the inhabitants. The governors were men of ability and identified themselves with the interests of the inhabitants, and many highly-placed officers married into Creole families.

Baron Carondelet was the most indefatigable builder. Up to 1778 Spanish commercial barriers restricted expansion great commercial highway. The Creoles, hostile at first, were soon reconciled to the new regime. At Chalmette downstream, General Jackson won the battle of New Orleans (1815) in the British-American War.

It cannot be said that the inhabitants used their new civic liberty particularly well. Several administrations were devised, with little success, to suit the heady temper of the citizens. During the Civil War New Orleans was captured and held by Federal troops and matters did not improve. These were the days of carpet-bag rule and elections to the



CABILDO OR SPANISH COURT HOUSE IN JACKSON SOUARE
On the south or to did the cathedral is the Cathedra extended in 1735. The minuted roof was added in
1831 and the Lakeous was chosed with plans and tabled into on first. But the intern is has undergone
belief change. It is now the "state Missesson and the nothing place of the Londisian Liberatory of transferring Londisians from France or the United States viole place bees

legislature were attended by scenes of the wildest disorder, in which lives were comparisons lost.

The last of the United States troops were withdrawn in 1877, however, and with freedom thus restored New Orleans could turn its mind to development. Progress from then on has been steady, until to-day we find a great living entity spreading from the river to the lake and crossing the river to the south, an area that supports a population of over 360,000 and encloses the Vieux Carré like a currant in a cake.

The World's Second Cotton Port

The great business thoroughfare is Canal Street, 200 feet broad, which cuts the city in two, dividing the American quarter to the west from the older portions eastward. Its riverward end roughly delimits the western boundary of the Vieux Carré. All along the river

and Unzaga. On the flagstaff in the centre, Spanish flag gave way to French, French to American.

Facing on Jackson Square are three of the most historic buildings, the Cabildo, the Cathedral and the Court House. For the rest, it owes its present appearance mainly to Madame de Pontalba, a native of New Orleans who spent most of her life in Paris but returned in the eighteen-forties and erected the Pontalba Buildings.

Within easy reach are the French Opera House, the French Market with its cobbles and fruitstalls, the St. Louis Hotel with the old block in its rotunda where slaves were occasionally put up to auction, the "Haunted House" where slaves are said to have been tortured by the owner, and many a building hallowed by history or removed from time and place by its atmosphere of France or Spain.